

STAKI

001511

October 16, 1991

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: Past Practices - General Topics
450 Hills St., Room 47
Richland, Washington
September 18, 1991

From/
Appvl.: Robert K. Stewart Date: 10/17/91
Robert K. Stewart, R.I. Coordinator, DOE-RL (A6-95)

Appvl.: Pamela D. Sherwood Date: 11/20/91
Douglas R. Sherwood, Representative, EPA (B5-01)

Appvl.: Charles J. Cleasby for LG Date 10/16/91
Larry Goldstein, CERCLA Unit Supervisor, Washington Dept. of Ecology

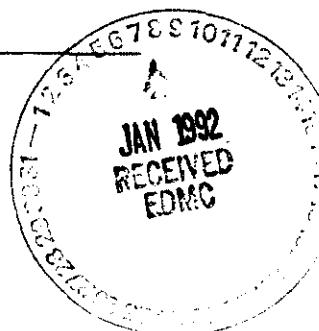
The purpose of this meeting was to discuss general topics which are common to all past practices operable units.

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Summary of Meeting and Commitments and Agreements
- Attachment #2 - Agenda for the Meeting
- Attachment #3 - Attendance List
- Attachment #4 - Commitments/Agreements Status List
- Attachment #5 - Analytical Laboratory Status
- Attachment #6 - Coordination of RI/FS Activities
- Attachment #7 - Specifications of the Mobile Screening Laboratory
- Attachment #8 - Management of Investigation Derived Waste
- Attachment #9 - Field Screening with X-Ray Fluorescence Analyzers
- Attachment #10 - Waste Information Data System Overview and Status
- Attachment #11 - Update on Hanford Well Surveying
- Attachment #12 - Statement of Work to Survey Locations and Elevations of Wells and Boreholes

Prepared by: W.E. McCleary Date: 11/22/91
SWEC, GSSC

Concurrence by: H.D. Avery Date: 11/20/91
WHC



General Topics Unit Managers Meeting
September 18, 1991

Distribution:

Dave Einan, EPA (B5-01)
Pam Innis, EPA (B5-01)
Doug Sherwood, EPA (B5-01)
Dan Duncan, EPA, Region 10, RCRA
Chuck Cline, WDOE (two copies)
Dave Nylander, WDOE (Kennewick)
R.O. Patt, OR Water Resources Dept.
Ward Staubitz, USGS
Donna Lacombe, PRC
Doug Fassett, SWEC (A4-35)
C.E. Clark, DOE-RL (A6-95)
D.L. Clark, DOE-RL (A5-55)
Julie Erickson, DOE-RL (A6-95)
R.D. Freeberg, DOE-RL (A5-19)
R.E. Gerton, DOE-RL (A4-02)
Jim Goodenough, DOE-RL (A6-95)
Elizabeth A. Bracken, DOE-RL (A5-19)
Mary Harmon, DOE-HQ (EM-442)
Paul Pak, DOE-RL (A6-95)
Jim Rasmussen, DOE-RL (A6-95)
Bob Stewart, DOE-RL (A6-95)
Nancy Werdel, DOE-RL (A5-19)

Mike Thompson, DOE-RL (A6-95)
S.H. Wisness, DOE-RL (A6-95)
J.M. Hennig, DOE-RL (A5-21)
John Stewart, USACE
Melvin Adams, WHC (H4-55)
Frank Calapristi, WHC (B2-35)
Steve Clark, WHC (H4-55)
Larry Hulstrom WHC (H4-55)
Wayne Johnson, WHC (H4-55)
Alan Krug, WHC (H4-55)
Merl Lauterbach, WHC (H4-55)
Tim Veneziano, WHC (B2-35)
Fred Roeck, WHC (H4-55)
Jim Patterson, WHC (B2-15)
Steve Weiss, WHC (H4-55)
Tom Wintczak, WHC (L4-92)
R.D. Wojtasek, WHC (L4-92)
Don Kane, EMO (K1-74)
Terri Stewart, PNL (K2-12)
Don Praast, GAO (A1-80)
Bob Henckel, WHC (H4-55)

ADMINISTRATIVE RECORDS: 1100-EM-1, 300-FF-1, 300-FF-5, 200-BP-1, 200-UP-2,
100-HR-1, 100-HR-3, 100-BC-1, 100-BC-5, 100-NR-1, 100-NR-3, 100-FR-1; Care of
Susan Wray, WHC (H4-22)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

November 19, 1991

Meeting Minutes Transmittal/Approval
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From/ Appv1.: Date:
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Douglas R. Sherwood, Representative, EPA (B5-01)

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Larry Goldstein, CERCLA Unit Supervisor, Washington Dept. of Ecology

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Prepared by: _____ Date:
SWEC, GSSC

Concurrence by: _____ Date:
WHC

Attachment #1

Summary of Meeting and Commitments and Agreements

**General Topics Unit Managers Meeting
September 18, 1991**

Introductions

1. Annie Smet (WHC) was introduced. Ms. Smet is the program business representative for the EK program. She will be assisting in allocating FY 1992 funds and monitoring the work scope.

Approval of the August Unit Managers Meeting Minutes

2. Comments on and changes to the August 14 General Topics Unit Managers Meeting minutes were discussed and the minutes were distributed for signature.

Update on Laboratory Status

3. Joan Kessner (WHC) gave a presentation on the status of analytical laboratories (see Attachment #5). Weston continues to be the laboratory that is used the most by DOE-RL. The facility assessment of DataChem was postponed. TMA has received most of the priority samples for analyses from the process trenches and from the expedited response action work. However, TMA is no longer accepting priority rad-chem samples. The PNL and 222-S labs have accepted their first single shell tank core samples for analysis. Recent turnaround times for labs used by DOE-RL were presented (see Attachment #5).
4. A letter will be written to Donna Wanek (DOE) to inform DOE-RL of the actual turnaround times for the various DOE-RL labs. In addition, information is being gathered from different DOE facilities on lab usage. It was found that the analytical requirements of other DOE facilities were not as stringent as those at Hanford. The analytical requirements for labs used by Hanford will be evaluated to determine if they are too stringent.
5. The request for proposals for the new lab contract was issued on August 9. Proposals are due back by October 15. The new contract is for 250 million dollars and for five years. There were 115 labs that expressed interest in the contract.

DOE Integration of Past Practices Sites

6. Bill Fryer (SWEC) provided an update on coordination of past practice activities (see Attachment #6). Eight areas have been identified that potentially require coordination. A short summary of each of these areas will be written and provided to DOE. Mr. Fryer said a better line of communication to DOE still needs to be developed for coordination issues. The eight issues are:

- a. Milestone Coordination - The coordination of changes based on the Tri-Party Agreement (TPA) milestone change documents is not clear. For example, modeling must be coordinated with the risk assessment. Modeling and the risk assessment are not managed by one person or program. Ward Staubitz (USGS) suggested that the risk assessment group should quickly use the product of the modeling group.
- b. RCRA/CERCLA Integration - For example, the schedule for RCRA closures must be coordinated with the schedule for CERCLA activities. Also, the priorities for well installations and for drilling are potential conflicts between the RCRA and CERCLA programs. Julie Erickson (DOE) said WHC is working with Kaiser to resolve the drilling conflicts. Bob Stewart (DOE) said the integrated schedule will help to resolve these conflicts.
- c. Investigation Derived Waste - For example, changes in EII 4.3 will probably influence the RCRA related EII 4.2. Also, there are uncertainties about what changes will be made to the investigation derived waste policy.
- d. Regulator Coordination - EPA and Ecology often do not have coordinated viewpoints. Conflicting requirements by the regulators will be described and provided to the regulators. For example, the priorities and authorities for the rescoped 100 Area work plans were not clear.
- e. Review Cycles - Julie Erickson said that DOE would perform a series of reviews of work plans and documents, based on the DOE-HQ review protocol. However, this would be taken into consideration when producing future documents. All milestones for work plans that were agreed to are still planned to be met.
- f. Changes in Scope of Investigations - Work at operable units is delayed when decisions are postponed until the UMMs take place. When decisions are made in the UMMs, the scope of work keeps changing and schedules are disrupted. Bob Stewart said that a level three change control form should be used for any field scope changes and the dollars involved should be identified.
- g. Past Practice Strategy, IRMs, RODs, and Macro Engineering - There is a mix of short and long-term goals.
- h. Utilization of WHC Resources - For example, resources for drill rigs, for Health Physics Technicians at drill rigs and for sampling personnel may be limited.

Action Item #GT.112: Conflicting requirements by the regulators will be described and provided to Julie Erickson by the end of the week of September 23. The conflicts will then be provided to the regulators (Larry Goldstein and Doug Sherwood) by the end of September. Action: Bill Fryer

Update on Inspection Protocols at Past Practices Sites

7. Eric Goller (DOE) described progress toward the development of a Hanford Site entry protocol document. Mr. Goller said DOE comments were being incorporated into the document and the draft document was being completed. The draft document will be provided to the regulators when the DOE-RL internal revisions are completed. It was not planned that the document would be revised after regulator review, and it was not anticipated that the document would be signed by the three parties. However, serious issues identified by the regulators would be considered. The table of contents of the protocol document was described by Eric Goller. It is expected that the draft document will be ready by December. Questions on the document should be addressed to Randy Krekel (DOE).

Update on Status of Mobile Laboratories

8. The use, value and status of procurement of the mobile laboratory were described by Tim Moody (WHC) (see Attachment #7). Mr. Moody said it is expected that field screening analyses would expedite the remedial investigation and would reduce costs. Both qualitative and quantitative analyses can be done at a mobile lab. Radiation screening will also be done. For example, 40 samples from the 300-FF-1 operable unit were analyzed within 30 days, and split samples were sent for Contract Laboratory Program (CLP) confirmation. Information on mobile labs was gathered from EPA and from environmental contractors who had put them together. A cost comparison between the theoretical mobile lab and an average CLP lab was presented. The mobile lab was designed to be a turnkey operation. Analyses of organics and inorganics in both soil and groundwater is planned. The lab is to be delivered with hardware and technical expertise. Mr. Moody said four proposals for the lab were received and are being evaluated. The contract is expected to be awarded by the middle of October 1991, and the lab is expected to be in service by February 1. Doug Sherwood said the number of samples that would need to be sent to CLP labs for confirmation would not be certain until the mobile lab was in operation.

Update on Investigation Derived Waste

9. Ed Smith (WHC) gave a presentation on the management of investigation derived waste (see Attachment #8). Mr. Smith explained that it was proposed that decontamination rinsate that was below the designation limits would be disposed to the ground. Solid waste below the dangerous waste designation limits would be considered non-hazardous and disposed in a solid waste landfill. Waste with a risk greater than 1.0E-5 should be handled in containers. Central storage areas would be managed according to the RCRA requirements, but a permit would not be needed. Rich Hibbard (Ecology) said waste with a health risk of less than 1.0E-5 to 1.0E-6 should be managed, although not necessarily in containers. Bob Stewart suggested that a meeting on the different waste management techniques be held so Rich Hibbard could describe the Ecology

requirements. Mr. Smith said XRF would be used for field screening until an official method for non-organics was identified. Mr. Hibbard said that if field screening equipment detected contaminants at background wells, samples should be collected and analyzed. Mr. Hibbard said EII 4.3 applies only to RCRA past practice TSDs and CERCLA operable units, not to TSDs or to interim closures. Doug Sherwood (EPA) said solidification was an inappropriate technology for the waste at 183-H; thus, it may not be appropriate for other similar wastes.

Use of X-Ray Fluorescence for Field Screening

10. Rich McCain (WHC) presented an overview of the technique of analysis with X-Ray Fluorescence (XRF) (see Attachment #9). The scientific reasoning behind the technique was described. The equipment that uses the energy dispersive type of analysis was described. Mr. McCain said the X-Met 880 unit manufactured by Outokumpu Electronics was *presently being used at the Hanford Site*. *Examples of data obtained from the 316-5 process trenches were presented*. Methods for processing samples before they were analyzed were discussed. Uniformity in grain size of the sample and in moisture content will improve the detection limits. However, extensive sample processing may defeat the primary benefit of field screening. At the 316-5 Process Trench expedited response action (ERA) field screening of samples in an as-received condition was accomplished within the contamination control zone. These samples were analyzed directly through the sample bag, avoiding the need to remove contaminated material from the zone and minimizing operator exposure to uranium dust. Preliminary results were obtained within 20 minutes of sample collection. The X-Ray sources that are used in the equipment were described. XRF is useful to identify metals that are above background. Mr. McCain said XRF was useful in identifying metals that have an atomic number greater than titanium. Also, the portable unit is capable of *in situ measurements on soil, concrete or other surfaces*. It can identify the presence of specific contaminants, but it may not accurately quantify the concentrations. The technique may be useful in correlating strata, field screening of hazardous waste samples or for on-site evaluation of contamination in support of cleanup activities. Detection limits of various XRF instruments were presented. Spectra from various analyses by the X-Met 880 were presented. A detection limit on the order of 100 to 500 parts per million is expected with the X-Met 880, depending on the matrix and element. The technique is being used to screen all samples from Horn Rapids Landfill. It is expected that existing field crews could use the XRF instrument. New instruments and probes may increase energy resolution (*improve element identification*), and lower detection limits.

WIDS Data Base

11. Nancy Homan (WHC) presented an overview and the status of the Waste Information Data System (WIDS) (see Attachment #10). Ms. Homan said the WIDS data base allowed all data on sites to be kept in one place. Data for reports such as the RCRA 3016 questionnaire and the Hanford Site

Waste Management Units Report is obtained from the data base. WIDS contains summary information (rather than raw data) and the detailed documents are referenced. The information contained in the data base varies from site to site. There are plans to convert the information in WIDS from Hanford coordinates to the Lambert coordinate system.

Mr. R. D. Fox (WHC) said data from reports such as the Remedial Investigation report is not entered into WIDS due to deficiencies in funding and staff. Environmental Protection and Environmental Engineering perform a set of investigations to determine if a site is important enough to be included in the WIDS data base. No sites have yet been removed from WIDS. Ms. Homan said a file on suspect waste sites has been started.

12. The inclusion of information in WIDS on sites that have been cleaned up was discussed. Ms. Homan said spills that are cleaned up at the time of the occurrence are not entered into WIDS. Mr. Fox said that in order to remove a site that was cleaned up from the data base, the unit managers would have to agree that the site should be removed. However, Mr. Fox said that there was a text field to update actions that have been taken at sites such as the 300 Area process trenches and the 618-9 burial ground. Also, he said that spills that were cleaned up should be included in the units report and that spills that were not cleaned up would be included in WIDS. Doug Sherwood suggested that there was a problem if WIDS did not indicate that sites identified in unusual occurrence reports had been cleaned up. Mr. Sherwood said sites that were cleaned up may then be investigated unnecessarily.

Action Item #GT.113: Provide an explanation of how information, including supplementary documents, on new sites and on sites that have been cleaned up, is included in WIDS. Examples will be provided for illustration. The explanation is to be provided by the first week of October. Action: Nancy Werdel

Update on Hanford Well Surveying

13. John Jacobson (ACE) presented an overview of the statement of work to survey the elevations and the horizontal locations of selected wells and boreholes (see Attachment #11). Mr. Jacobson said the survey would support the data that is being used for monitoring and also the hydrogeologic investigations on water contour elevations that are under way. The coordinates for the plot of the survey results were discussed. The existing coordinate system needs to be updated for the survey. However, two coordinate systems will be used. The National Geodetic Survey is expected to develop procedures and give approval of the work by February 1992. The field survey work should be done from April 1992 to June 1992, and the report of the work should be available October 1, 1992. Ward Staubitz pointed out that the survey information would not be useful in drawing water table maps for the 200 aggregate area study. This is because the survey results would not be available by the time the aggregate area study would have to be completed. Mr. Staubitz

confirmed that third order leveling of the wells would be done. He suggested that ARC-Info be used to map the data.

Action Item Status

14. Doug Fassett (SWEC) presented the status of the outstanding action items (see Attachment #4). The status of the action items was obtained from the meeting participants so that the action items could be updated.

Discussion

15. The schedule for the October Unit Managers Meeting was discussed.

Action Item #GT.114: Determine where the macro engineering study is in the approval process of DOE. A presentation will be contingent on DOE management approval. Action: Allan Harris

Attachment #2

Agenda

**Unit Managers Meeting
September 18, 1991**

General Topics

9:00 - 9:15

Approval of August Unit Managers Meeting Minutes - Doug Fassett

9:15 - 9:30

Update on Laboratory Status - Joan Kessner

9:30 - 9:45

DOE Integration of Past Practice Sites - Bob Stewart/Bill Fryer

9:45 - 9:50

Update on Inspection Protocols at Past Practice Sites - Eric Goller

9:50 - 10:05

Update on Investigation Derived Waste - Ed Smith

10:05 - 10:20

Break

10:20 - 10:35

Update on Status of Mobile Laboratories - Tim Moody

10:35 - 11:45

Use of X-Ray Fluorescence for Field Screening - Rich McCain

11:45 - 12:30

Lunch

12:30 - 1:00

WIDS Data Base - Nancy Homan

1:00 - 1:30

Update on Hanford Well Surveying - John Jacobson

Attachment #2 (Cont.)

Agenda

1:30 - 2:00

Action Item Status - Doug Fassett

October Unit Managers Meeting Agenda - Bob Stewart

Scheduling of Macro Engineering Presentation - Bob Stewart

Attachment #3

Attendance List

**General Topics Unit Managers Meeting
September 18, 1991**

Name	Org.	O.U. Role	Phone
Swenning, S.H.	ASI	NA	(509) 946-7112
Allender, Robert	B & C	Ecology Support	(503) 244-7005
Erickson, Julie	DOE-RL	Branch Chief	(509) 376-3603
Goller, Eric	DOE-RL	RCRA Prog. Manager	(509) 376-7326
Goodenough, Jim	DOE-RL	100-Area	(509) 376-7087
Harris, Allan	DOE-RL	O.U. Manager	(509) 376-4339
Shafer, David	DOE-RL	GW OU Mangr.	(509) 376-4670
Stewart, Robert K.	DOE-RL	Gen. Top. Meet. Chair	(509) 376-6192
Thompson, K. Michael	DOE-RL	ER Program	(509) 376-6421
Werdel, N.A.	DOE-RL	QA & Data Management	(509) 376-5500
Cline, Chuck	Ecology	Geohydrology	(206) 438-7556
Hibbard, Richard	Ecology	CERCLA Unit Support	(206) 493-9367
Ruud, Casey	Ecology	Ecology Support	(509) 546-2997
Einan, Dave	EPA	Unit Manager	(509) 376-3883
Innis, Pamela	EPA	Unit Manager	(509) 376-5466
Sherwood, Doug	EPA	Unit Manager	(509) 376-0529
Lewis, A.K.	KEH	Surveying	(509) 373-2615
Mullen, Richard	PMX	Ecology Support	(206) 455-2550
Lacombe, Donna	PRC	EPA Contractor	(206) 624-2692
Malody, C.W.	Siemens		(509) 375-8537
Fassett, Doug	SWEC	GSSC to DOE/RL	(509) 376-3136
Fryer, Bill	SWEC	GSSC to DOE/RL	(509) 376-9707
Knox, Kathy	SWEC	GSSC to DOE/RL	(509) 376-5011
McClung, Bill	SWEC	GSSC to DOE/RL	(509) 376-1853
Bennett, Arthur	USACE		(509) 376-6421
Cannon, Dennis	USACE	Surveying/1100-EM-1	(509) 376-9487
Jacobson, John H.	USACE	100-FR-1	(509) 376-1250
Lilas, Raimo	USACE	1100 Area Tech. Man.	(509) 522-6924
Drost, Brian	USGS	EPA Support	(206) 593-6510
Staubitz, Ward	USGS	EPA Support	(206) 593-6510

Attachment #3 (Cont.)

Attendance List

Bechtold, R.A.	WHC	NA	(509) 376-9017
Carlson, R.A.	WHC	200/300 Env. Eng.	(509) 376-9027
Downey, H.D.	WHC	Program Office	(509) 376-5539
Fox, R.D.	WHC	WIDS	(509) 376-3261
Henckel, George C III	WHC		(509) 376-1994
Henckel, Robert P.	WHC	Env. Eng., OU Support	(509) 376-2091
Homan, N.A.	WHC	WIDS	(509) 376-9744
Lerch, J.A.	WHC	OSM	(509) 376-3419
McCain, R.G.	WHC	81223	(509) 376-0777
Mix, Pauline	WHC	Activity Engineer	(509) 376-1543
Patterson, Jim	WHC	ER Program	(509) 376-0568
Roberts, Jim	WHC	OU Coordinator	(509) 376-5164
Smet, A.K.	WHC	NA	(509) 376-6558
Smith, Ed	WHC		(509) 367-4511

Attachment #4

Action Items Status List

**General Topics Unit Managers Meeting
September 18, 1991**

Item No.	Action/Source of Action	Status
GT.38	If possible, at the May Unit Managers Meeting a presentation on the approved, preferred alternative method for disposal of the reactors will be given. Action: Jim Goodenough (4/18/90, GT-UMM)	Open The EIS will be reviewed by Admiral Watkins' office and Nuclear Safety (4/16/91). The RL program at DOE/HQ has written a letter to EH urging EH to quickly approve the final EIS and allow it to be published (6/19/91). Waiting for action from headquarters (8/8/91).
GT.71A	Provide the Environmental Information Management Plan (EIMP) and the Information Management Systems Plan (IMSP) to EPA and Ecology. Action: Nancy Werdel (9/18/91, GT.UMM)	Open The ENCORE plan was revised and incorporated into the IMSP which will be out in December. The IMSP evolved into the EIMP. The records management plan (which is part of the EIMP) was completed and it will be sent to the regulators (9/18/91).
GT.76A	DOE is to respond to the comments that were provided by Ecology and EPA on the revised EIIs 4.2 and 5.4. The EIIs are related to the handling of drilling decontamination fluids. Action: Bob Stewart (7/17/91)	Open. EII 4.2 is to be discussed at the RCRA/CERCLA integration meeting (8/14/91). The update of EII 4.2 will be deferred until 4.3 is completed (9/18/91).

- GT.77A A mechanism for the WHC to inform the regulators of sample results and disposal methods for rinsate is to be developed. Action: Hal Downey (7/17/91)
- Open
This action has been forwarded to Bob Hobbs, the manager in WHC responsible for the disposition of decontamination rinsate waters generated at drill sites. His organization obtains the sample data, submits it for designation, and subsequently disposes of the waste. Mr. Hobbs will contact Mr. Hibbard to discuss a method for sharing data with regard to waste designation (8/6/91). Efforts to contact Mr. Hibbard in the weeks of 9/9/91 and 9/16/91 were unsuccessful (9/17/91). An alternate means of communication was arranged (9/18/91).
- GT.91A A presentation on data entry into HEIS is to be given at the August UMM. A meeting is to be set up between EPA, WHC, Ecology and DOE on how the determination is made to include certain data in HEIS and on what data validation entails. Action: Bob Henckel, Nancy Werdel (6/19/91)
- Closed (9/17/91)
The first round of the 1100 Area groundwater data is in HEIS. The entire groundwater database has been reviewed to ensure that all data is included. Data packages for the second and third round of 1100 groundwater data, the 300 FF-1 asparagus data and RCRA 200-BP-1 data are being prepared to be entered. Data entry is being evaluated to increase efficiency (8/13/91). Both items were addressed at the August UMM (8/14/91).
- GT.95A The draft task order on surveying and the associated schedule for performance and completion of the work are to be provided to EPA and Ecology. Action: John Stewart (6/19/91). Mike Thompson will provide an update on the status of this task. Action: K.M. Thompson (7/17/91)
- Closed (9/18/91)
The third or fourth draft of the Kaiser statement of work was received by the Corps the week of July 15. Comments on the document were provided to Kaiser by EPA. A list of wells to be surveyed was provided to the Corps on 2 August 1991. It will take two to three weeks for the Corps to provide a draft task order to DOE (7/17/91). WHC is providing to USACE a final version of task order this week. ACE will give a presentation at the September UMM (8/8/91).

- GT.104 A presentation on inter-program coordination between the Waste Management Division and the Environmental Restoration Division is to be given. Ecology requests that information on management decision making, data management, field work and cross-program communication between ERD and WMD be included. Specific examples include: 1) decontamination and decommissioning of the reactors; 2) surface radiation reduction; 3) RCRA-site activities; and, 4) reactor operations (mulberry trees). The objective is to assure the regulators that these activities are being conducted in accordance with federal and state law, the TPA and any ongoing or planned past practice work. Action: *Tim Veneziano* (4/16/91)
- GT.108 Protocols are to be developed to facilitate conduct of regulatory inspections and site visits at past practice sites. Action: *Eric Goller* (DOE) (6/19/91)
- GT.109 The surpassing of the turnaround times identified in the TPA for radiochemical sample analyses and the actions that will be taken to improve the turnaround times are to be provided to the regulators in a written document. Action: *Joan Kessner* (WHC) (7/19/91)
- Open Bill Fryer will partially address this action as part of the operable unit consistency task (7/17/91). Bob Stewart suggested that the presentation at the Project Managers Meeting be given at the Unit Managers Meeting (9/18/91). A presentation will be given at the next Project Manager's Meeting on the integration of Waste Management Division and Environmental Restoration Division. The presentation will be given by David Pabst (WHC) (10/16/91).
- Open Casey Ruud is the contact for Ecology and Dan Duncan is the contact for EPA (7/17/91). DOE comments are being incorporated into the document and the draft document is being completed. It is expected that the draft document will be ready for distribution to the regulators before December (9/18/91).
- Open Joan Kessner said they are collecting data for existing labs and that a presentation is to be made at the September UMM (8/7/91). The written document is planned to be completed in September (8/14/91).

- GT.111 EPA and Ecology are to provide comments on the "Draft Data Validation Procedures for Chemical Analyses" received from WHC at the August 1991 1100-EM-1 Unit Managers Meeting. Action: Dave Einan and Rich Hibbard (8/14/91) Open
The procedures have been reviewed by the WHC Office of Sample Management and outside subcontractors. They will be used by all subcontractors in validation of 1100-EM-1 ground water data (8/19/91). Rich Hibbard will finalize comments by September 25 and then send them to WHC (Steve Clark). Donna Lacombe is close to completing comments for EPA (9/18/91).
- GT.112 Conflicting requirements by the regulators will be described and provided to Julie Erickson by the end of the week of September 23. The conflicts will then be provided to the regulators (Larry Goldstein and Doug Sherwood) by the end of September. Action: Bill Fryer (9/18/91) Open
- GT.113 Provide an explanation of how information, including supplementary documents, on new sites and on sites that have been cleaned up, is included in WIDS. Examples will be provided for illustration. The explanation is to be provided by the first week of October. Action: Nancy Werdel (9/18/91) Open
- GT.114 Determine where the macro engineering study is in the approval process of DOE. A presentation will be contingent on DOE management approval. Action: Allan Harris (9/18/91) Open

MILESTONE COORDINATION

RCRA/CERCLA INTEGRATION

INVESTIGATION DERIVED WASTE

REGULATOR COORDINATION

REVIEW CYCLES

CHANGES IN SCOPE OF INVESTIGATIONS

**PAST PRACTICE STRATEGY, IRMs, RODs, AND
MACRO ENGINEERING**

UTILIZATION OF WHC RESOURCES

Instrument Specifications and Functional Design Criteria of the Mobile Screening Laboratory

T. E. Moody
Environmental Engineering Support Section
Environmental Engineering

Objective

To expedite and reduce cost of the Remedial Investigation/Feasibility Study (RI/FS) process by the implementation of Field Screening analyses

Mobile Laboratory Analysis

(Compendium of Superfund Field Operations Methods)

Field screening consists of two phases:

- Field survey using instruments such as OVA meters or HNU detectors to analyze the ambient conditions on-site or to conduct limited analyses or samples (Level I DQO)**
- Mobile laboratory analysis to provide better qualitative and quantitative data to use in decisions about safety,sampling,CLP confirmation (Level II DQO)**

Mobile Screening Laboratory Use

- U.S. EPA Regions**
- U.S. EPA Offices of Research & Development
(EMSL, Las Vegas)
(Research Triangle Park, NC)**
- State Governments**
- Environmental Contractors**
Enesco
NUS
IT Corporation

Mobile Screening Laboratory Benefits

Rapid turnaround of results

- 48 hours
- Sampling design
- Customization of analysis
- Reduced QA f(DQO's)

Reduced cost ⇔ expedient results

- Sampling time reduced
- Shipment and storage
- Analysis time reduced
- Remediation

Mobile Laboratory Analysis Current Applications

300-FF-1 Operable Unit Work Task 3b

- Background determinations
- volatile and semi-volatile organics, metals, ion selective electrode analysis
- 60 samples
- August 1-31
- Hard copy results within 48 hrs
- CLP confirmation

316-5 Process Trench (ERA)

- post-excavation analysis
- volatile and semi-volatile organics, metals, ion selective electrode analysis
- 5 samples
- August 1-31
- Hard copy results within 48 hrs
- CLP confirmation

Justification

Cost

CLP = \$2,548/sample

Time

**Holding times
Transportation
Off-site, deliverables
coordination
Sampling:analysis
Scheduling
Mixed waste
HPT coordination**

**Mobile screening = \$70/sample
 = \$325 (~10% CLP confirmation)**

Cost Savings Analysis

Average cost CLP (12 labs) \$2,548. sample⁻¹

20 samples/day 4,400. yr⁻¹

CLP cost \$11,211,200. yr⁻¹

Yearly operating cost

5 yr depreciation 97,042.

2 chemists 130,000.

support personnel 44,000.

maintenance 27,500.

expendables 5,500.

service contracts 5,000. \$309,042.

DQO's ~ 10% CLP 1,121,120.

Mobile lab cost/yr 309,042. \$1,430,136.

CLP (4,400 samples) \$11,211,200.

Mobile lab cost/yr \$1,430,136.

Cost Savings/yr	\$9,780,800.
-----------------	--------------

General Specifications

- Turnkey operation
- Analysis of organics, inorganics in soil and H₂O
- Delivery with (2) analytical chemists
- Concurrent training of WHC analysts
- Samples < .5 mR/hr gamma, 5000 dpm alpha, or 50,000 dpm beta
- Generator equipped; environment and instrumentation
- Anchorable to withstand 100 mph winds
- Negotiate unimproved dirt or gravel roads
- Consistent ambient environment
- Auxiliary facility for creature comforts

Classification of Contaminants

- ORGANIC -

-Volatiles

**High vapor pressure
small number of carbons
 CCl_4 , hexane, benzene**

-Semi-volatiles

**Low vapor pressure
larger number of carbons
Phenols, PCB's (aroclor),
DDT, nitrosamines**

- INORGANIC -

- Metals
- Cations
- Anions
- Drinking H₂O

Organic Analysis

Preliminary screen:

- SRI 8610 GC
- PID, ECD, FID (series)
- Flag for further organic analysis
- Dilution for GC/MS

Volatile organic analysis:

- HP 5890 GC/MS
- Purgeable organics
- 54,000+ NIST cmpds

Semi-volatile organic analysis

- HP 5890 GC/MS
- Supercritical fluid extraction (SFE)
- no methylene chloride; hexane
- 30 minute extraction
- 54,000+ NIST cmpds

Inorganic Analysis

Metal analysis

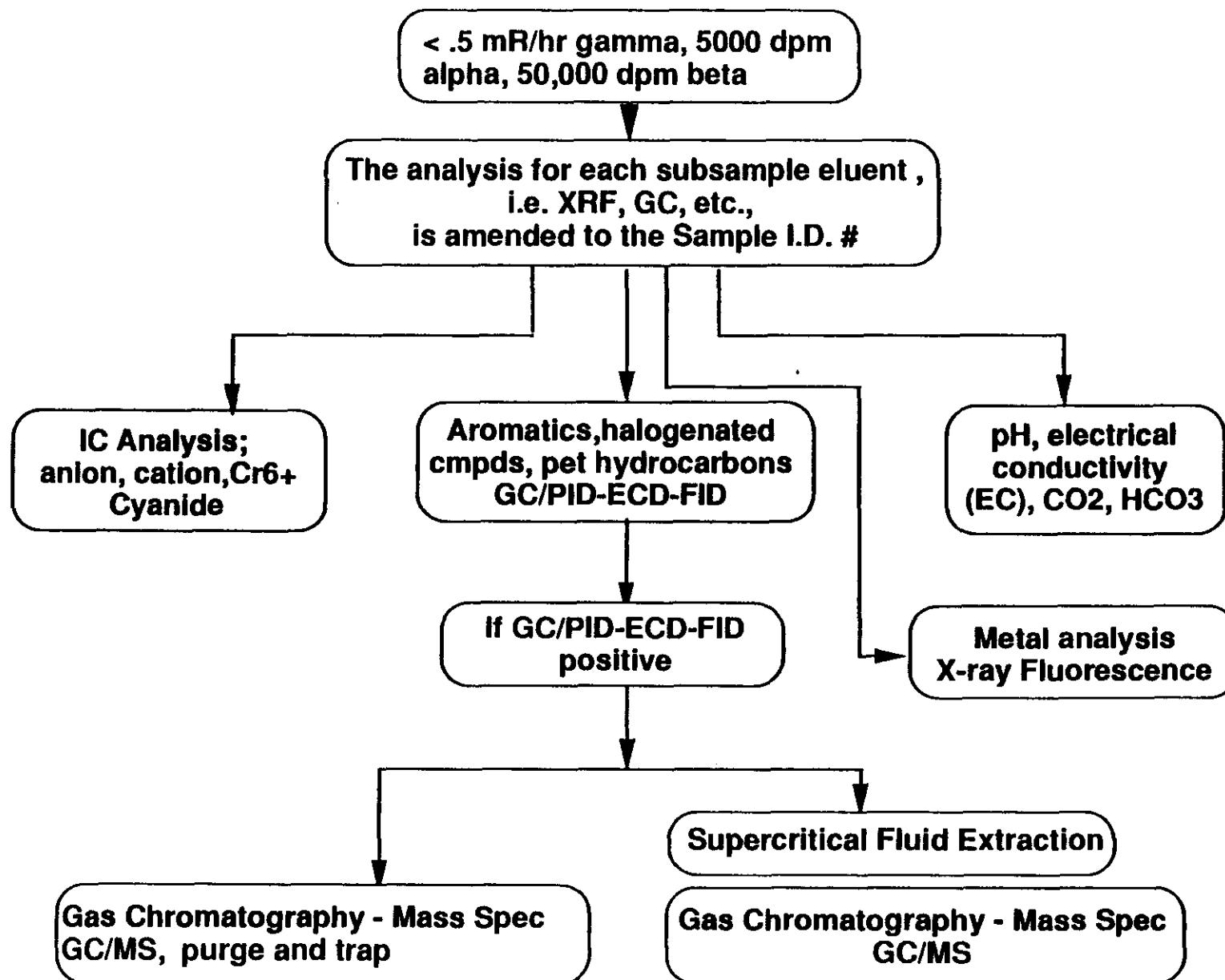
- XRF, Tracor Spectrace 6000
- 46 metals, soil & water
- Non-destructive analysis
- No acid dissolution, i.e., method 3050

Cation and Anion analysis

- IC, Dionex DX 100
- Cations, anions, Cr⁶⁺, -CN, NO₃⁻, NO₂⁻
- low ppb
- total ion solution concentration

Alpha, beta, and gamma scanning

- 5,000 dpm
- 50,000 dpm
- .5 mR/hr @ 3 cm



Status of Procurement

- Receive proposals	September 9
- Proposal evaluation	September 20
- Contract award (Actual award)	October 1 October 20
- Product/service needed by	February 1, 1992
* Proposal 1	February 1
Proposal 2	February 1
Proposal 3	April 1
* Proposal 4	May 1

9/18/91
Ed. Smith

WESTINGHOUSE HANFORD COMPANY

Management of Investigation Derived Waste

We're Making Sure

DOOR COPY RECEIVED

WESTINGHOUSE HANFORD COMPANY

Unresolved Issue is Collection Criteria

- Current approach uses dangerous waste designation limits
- Ecology proposed Method C cleanup levels of MTCA
- Additional negotiation is required

We're Making Sure

Resolved Issues

- XRF instrumentation will be used for detection of inorganics
- Slurry wastes will be solidified
- Decontamination fluids will be overpacked
- Solid waste will be managed the same way as soil
- Containers will be moved to central location within 90 days
- Centralized locations within operable units will not require permits

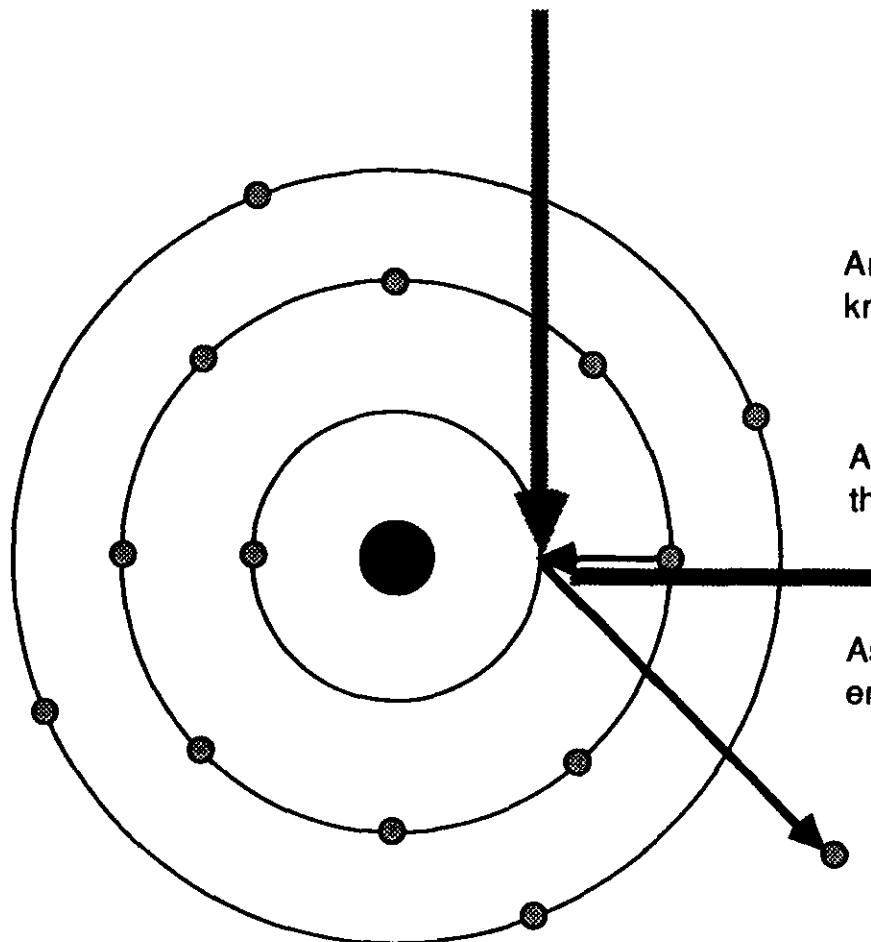
9

**Field Screening for Heavy Metals
with
Portable X-Ray Fluorescence Analyzers**

R.G. McCain

September 18, 1991

X-Ray Fluorescence



An incident X-ray interacts with an inner electron, knocking it out of its orbital

An electron from an outer orbital moves in to fill the hole

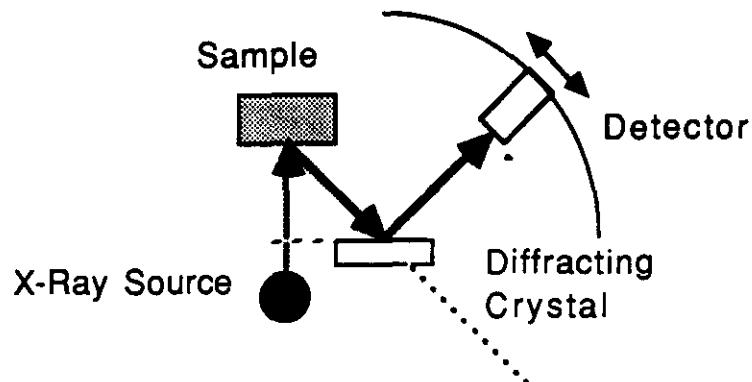
As the electron moves in, it loses energy, which is emitted as an X-ray.

General Characteristics of XRF

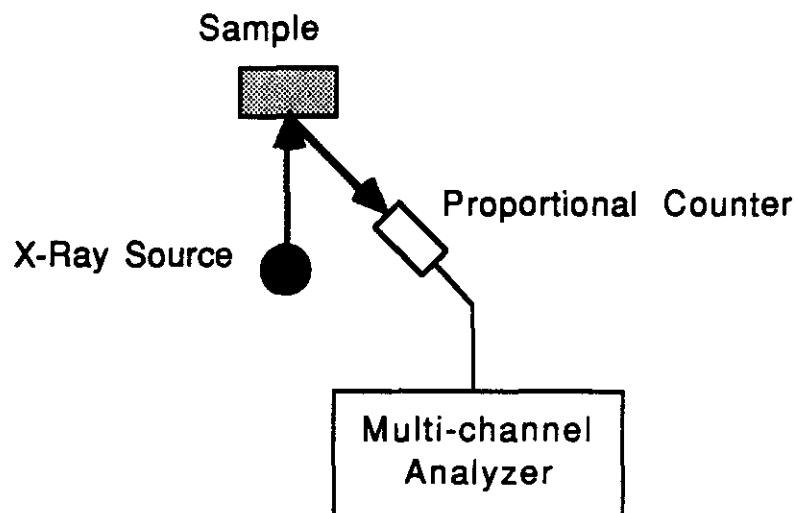
- **An element will fluoresce when bombarded by X-rays whose energy level is above a minimum threshold level known as the absorption edge. The efficiency with which fluoresced X-rays are generated is greatest when the energy level of the incident X-rays is just slightly above the absorption edge, and decreases with increasing energy level.**
- **Both the absorption edge and the energy level of the fluoresced X-Rays is a function of the atomic number of the element and the electron orbital transition. Each element emits characteristic X-Ray spectra.**
- **Since the XRF phenomena results from inner orbital transitions, it is not affected by valence state or chemical bonding. Hence, XRF is an elemental analysis method.**
- **The intensity (count rate) at a particular characteristic energy level is a function of the amount of the element present.**

Basic Types of XRF Instruments

Wavelength Dispersive



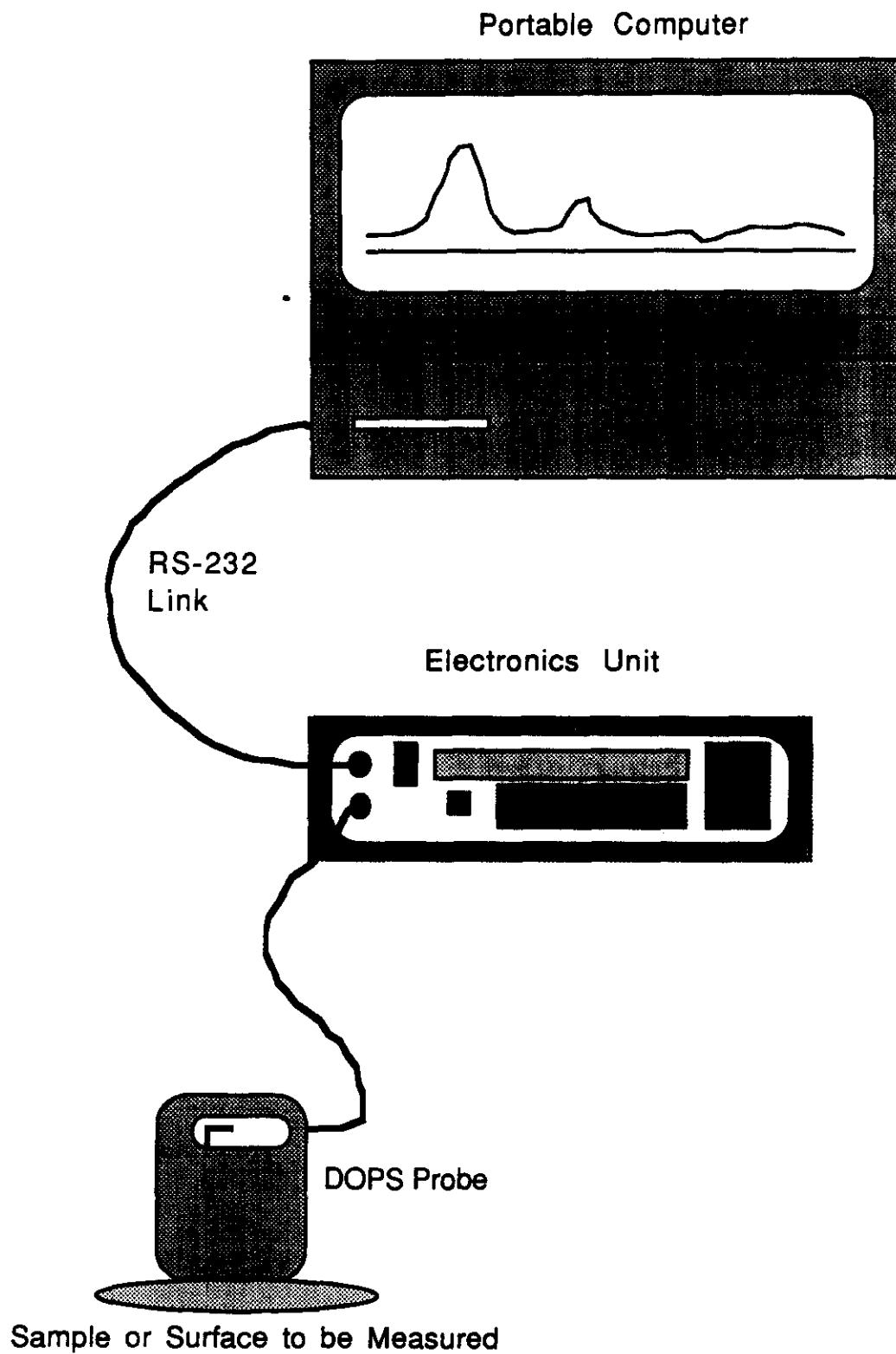
Energy Dispersive



Factors Affecting Interpretation of XRF Data

- **Source energy level and excitation efficiency**
- **Detector efficiency and energy resolution capability**
- **Measurement time**
- **Matrix effects:**
 - **Scattering**
 - **Absorption**
- **Interelement effects:**
 - **Peak overlap**
 - **Secondary excitation**
 - **Secondary absorption**

X-Met 880

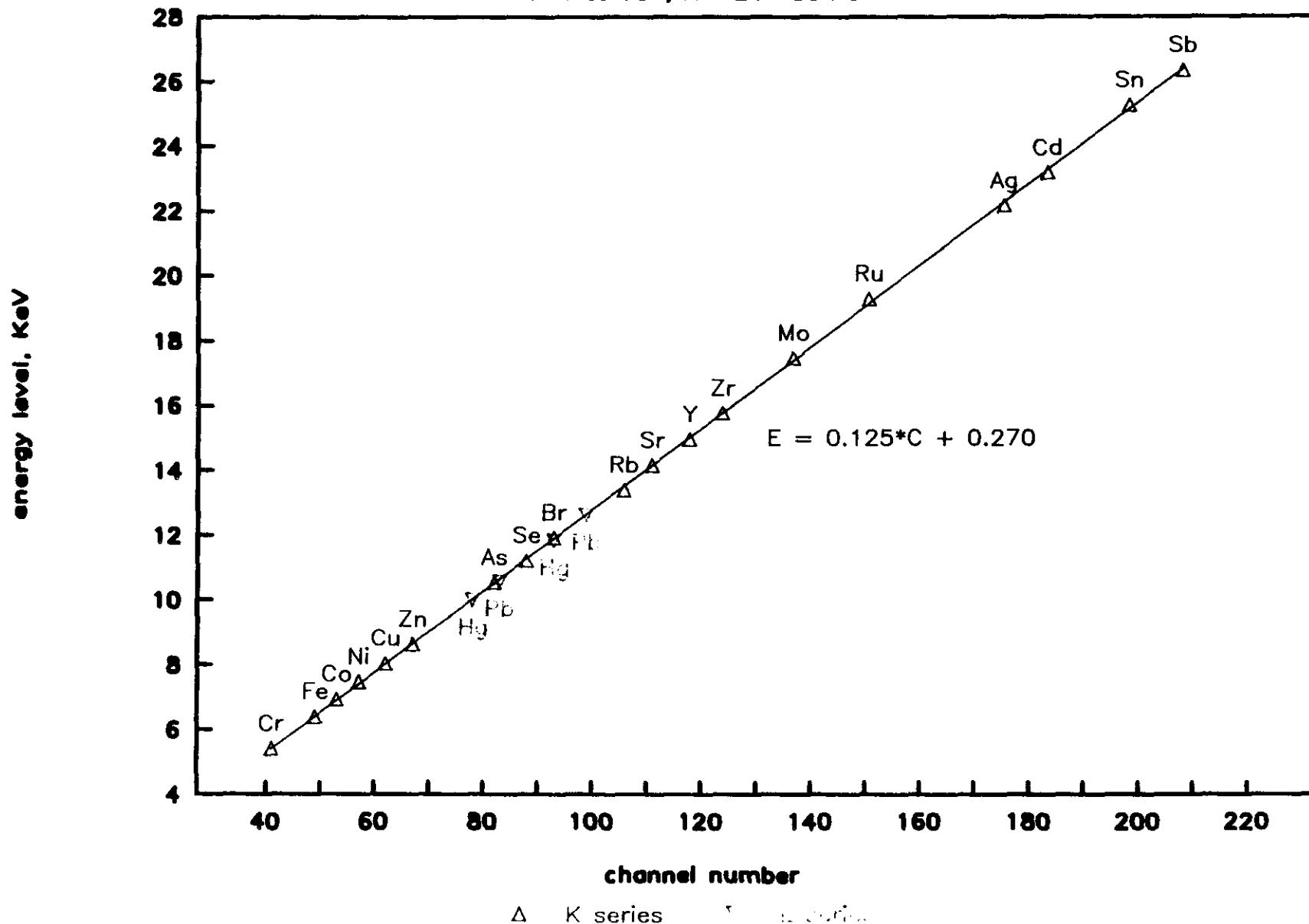


**Radioisotope Sources for
Portable XRF Units**

Source	Half Life	Gamma-Ray Emissions	Element Range	
			K-lines	L-lines
Fe ⁵⁵	2.7 y	5.9 KeV	Si-V	Nb-Ce
Cm ²⁴⁴	17.8 y	14.3, 17.25, 18.3 KeV	Ti-Se	La-Pb
Cd ¹⁰⁹	1.3 y	22.1, 24.9 KeV	Cr-Mo	Tb-U
Am ²⁴¹	433 y	59.5 KeV	Zn-Nd	Hf-U

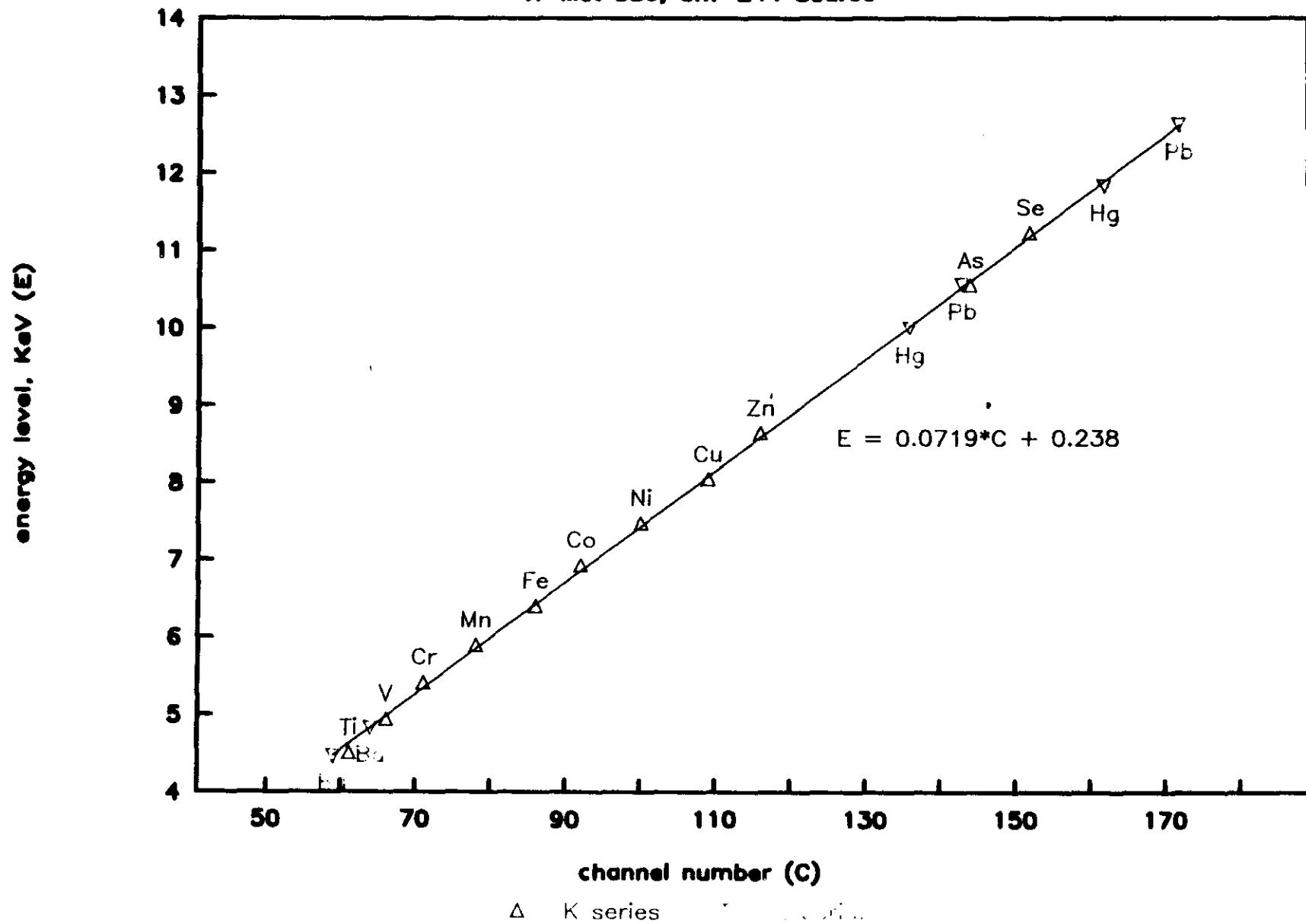
Energy Levels and Channel Numbers

X-Met 880, Am 241 Source



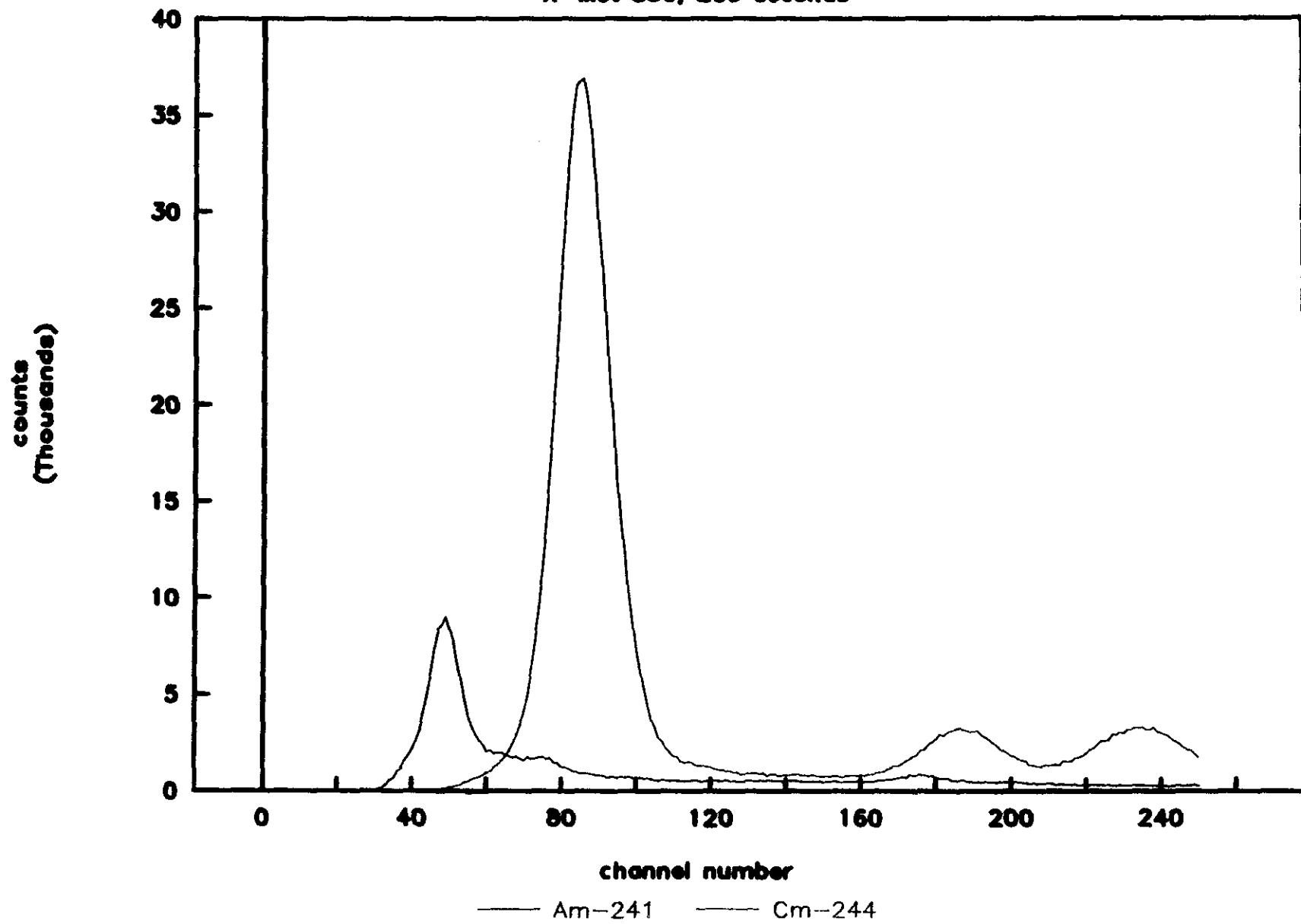
Energy Levels and Channel Numbers

X-Met 880, Cm-244 Source



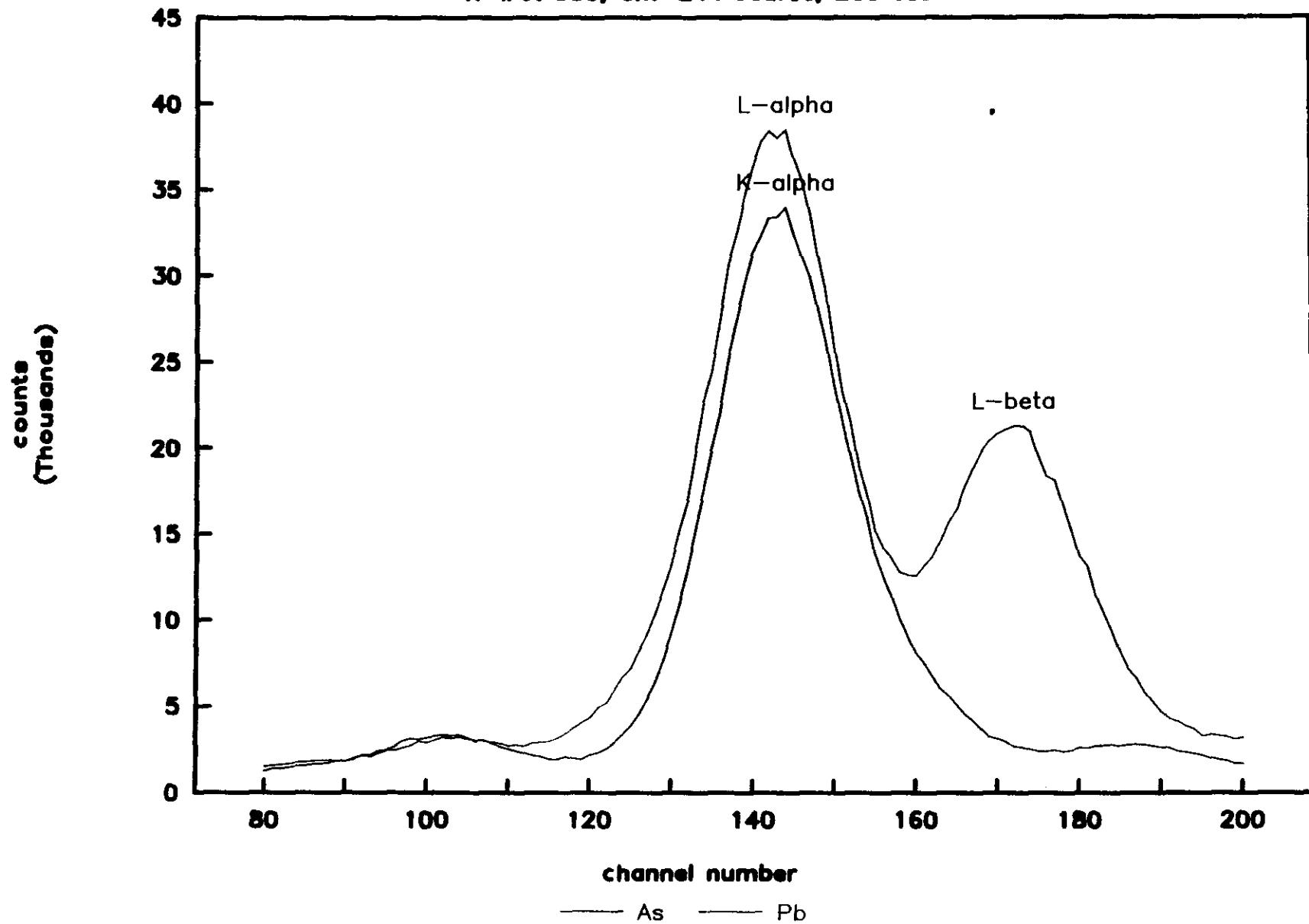
Comparison of Spectra – Fe Standard

X-Mat 330, 200 seconds

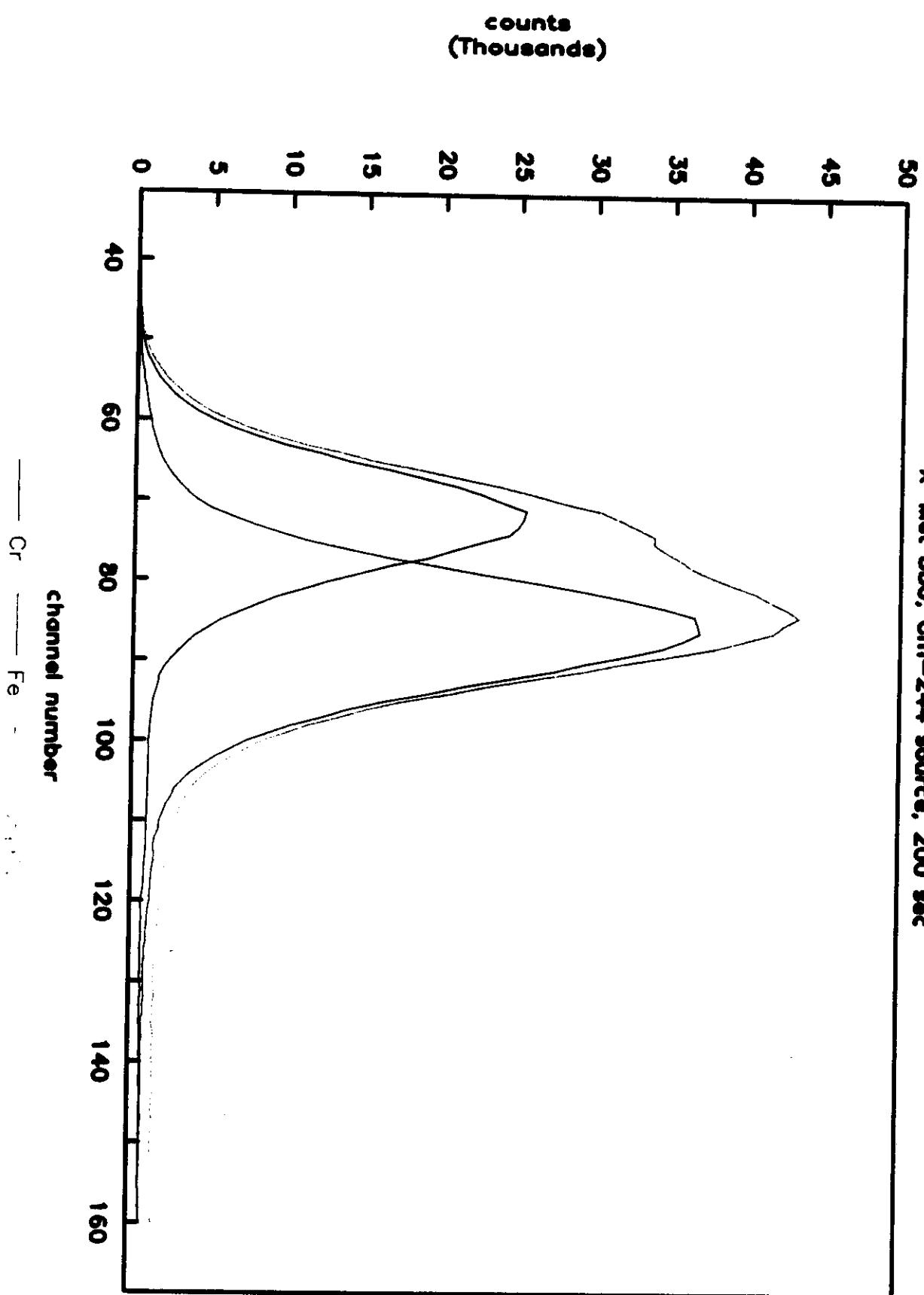


As & Pb Spectra

X-Met 880, Cm-244 source, 200 sec



Cr & Fe Spectra
X-Met 880, Cr-244 source, 200 sec



X-Met 880 Analytical Methods

ID Model

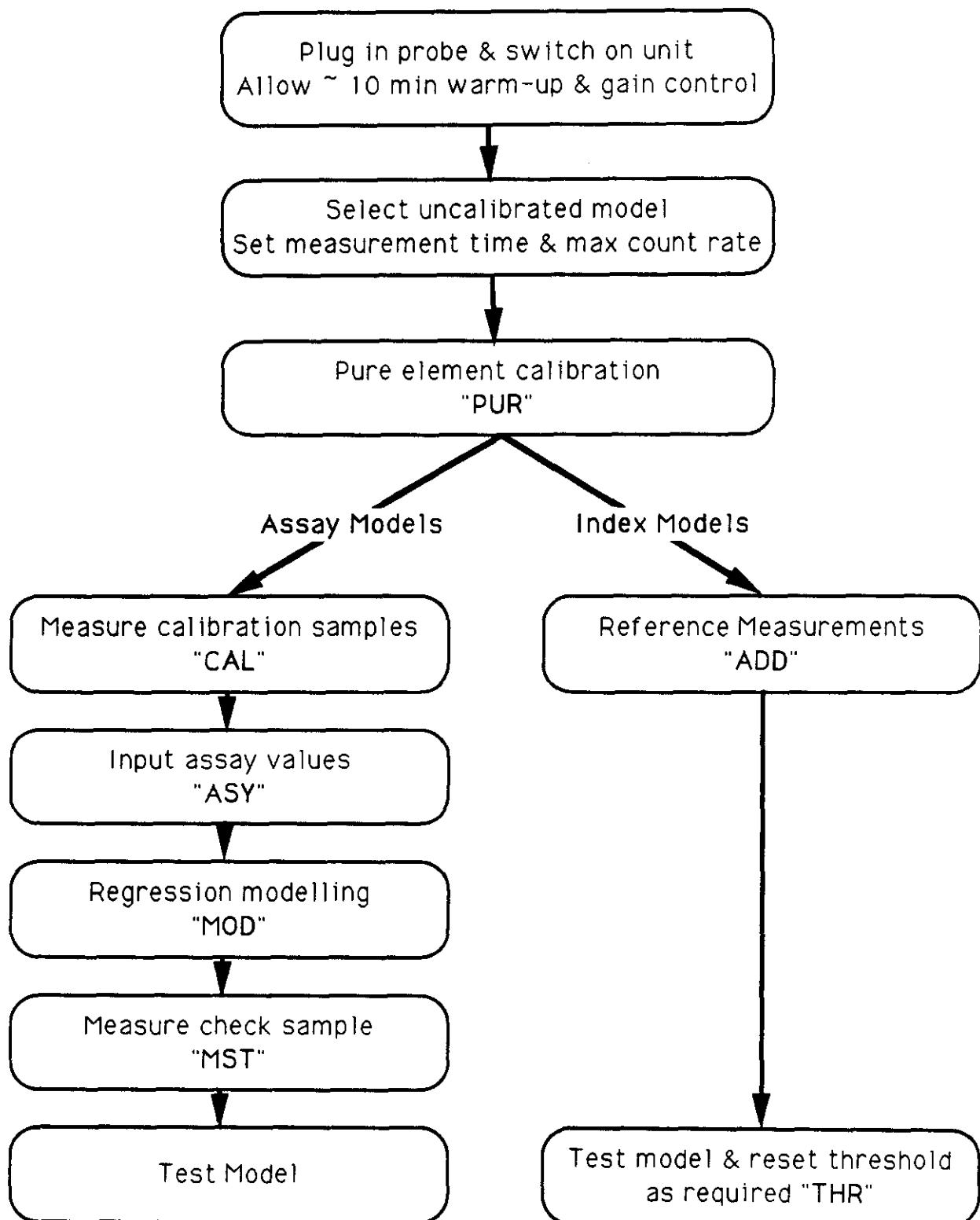
- Instrument attempts to find match based on comparison of relative intensities. Output is identification of material.
- Primarily used to identify metal alloys. May also be useful in stratigraphic correlation, and in monitoring cleanup activities.

ASSAY Model

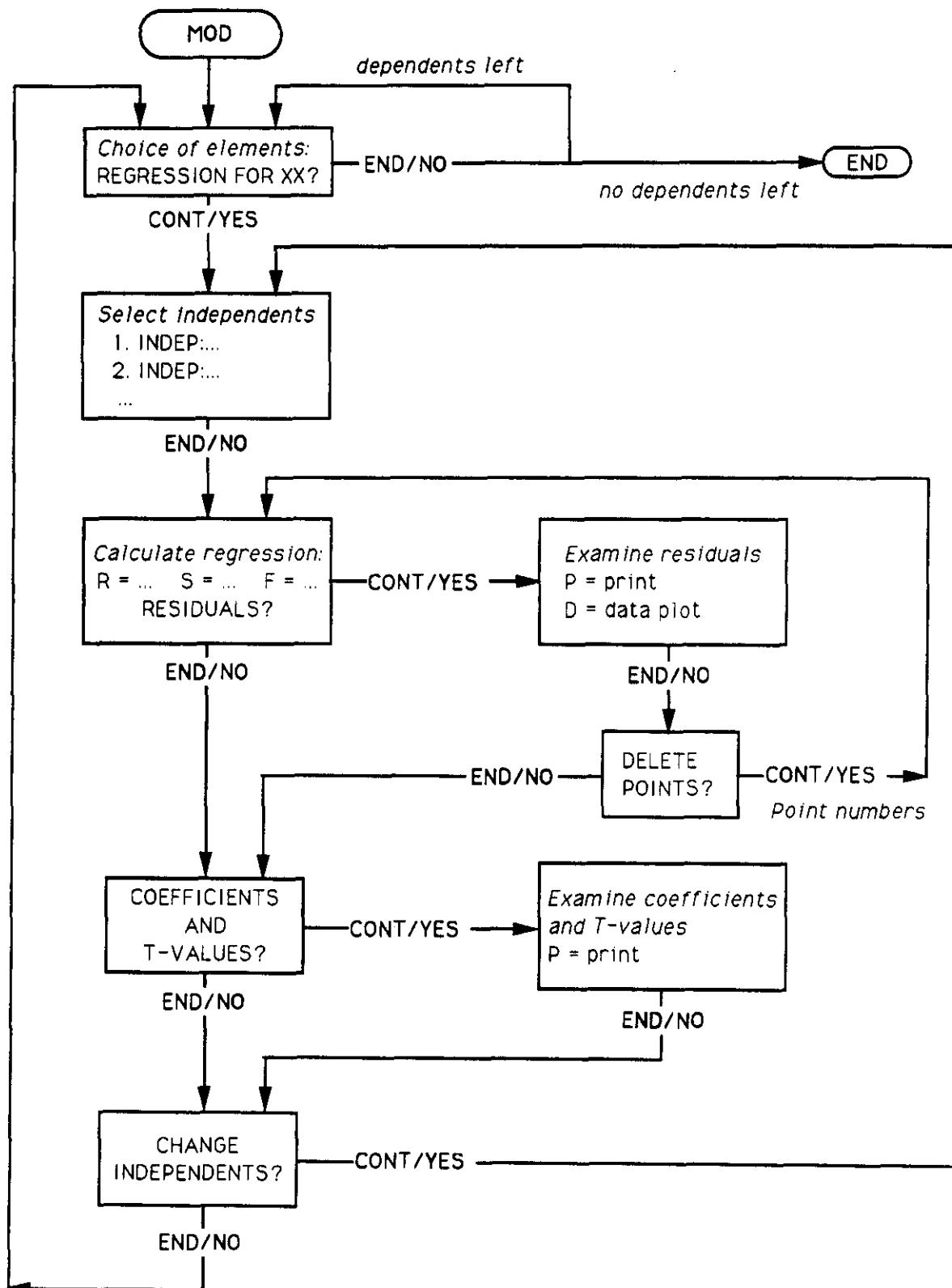
- Instrument computes assay values from XRF intensities based on empirical calibration.
- Types of ASSAY Models
 - **ASSAY**: Output is in concentration values, with empirical calibration based on regression to 20-30 calibration standards. Provides quantitative output.
 - **INDEX**: Output is in net intensity for each element of interest. Provides qualitative output.
 - **SCAN**: Output is gross count rate for six elements which represent adjacent bands over the useful part of the spectrum. All channels within the useful part of the spectrum are accumulated into one of the element bands. Provides a non-specific indication of the possible presence of contamination

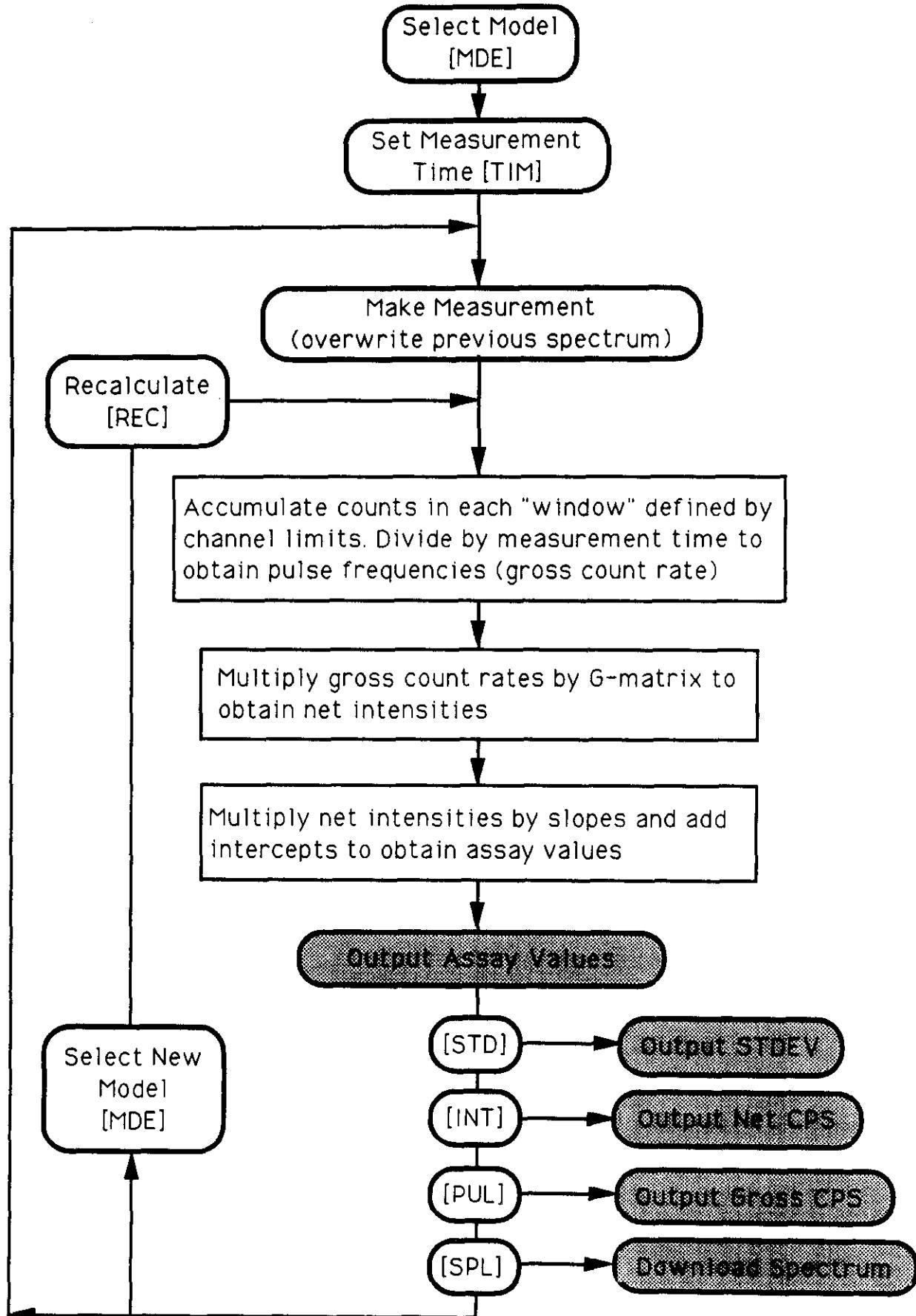
Spectral Evaluation

- Download and evaluate spectra
- Contamination detected by comparison of spectra to background. Elements identified by energy level



Overview of Model Development





Detection Limits for XRF Analyzers in Field Screening Applications
 values in mg/Kg (ppm)

ref	unit	Cr	Cu	Zn	As	Cd	Pb
Piorek & Rhodes (1988)	X-Met		90	60	120		150
Pasmore, et al (1990)	X-Met	200	100	100	120	50	200 ¹ 100 ²
Chappel, et al ³ (1986)	X-Met		63 81	51 60	99 21		156 96 42
Cole, et al (1991)	X-Met		410-470	105-200	100-250		120-513
McCain (unpubl)	X-Met	500	250	350	250	80	500
Fust et al (1985)	Kevex	50	30	30	50		20
Raab, et al	MM	1000	250	200	150		70
Ashe, et al (1991)	TN	1000	200	150	50	30	50
Harding (1991)	Spectrace		26	19	12	4	7

¹ Cm²⁴⁴ source

² Cd¹⁰⁹ source

³ Data from three sites

Ashe, J.B.; M. Bernick; P.F. Berry; G.R. Voots; G. Prince (1991); "A High Resolution Portable XRF HgI₂ Spectrometer for Field Screening of Hazardous Wastes"; Proc. 2nd International Symposium on Field Screening Methods for Hazardous Wastes and Toxic Chemicals, Las Vegas, Feb 1991.

Chappel, R.W.; A.O. Davis & R.L. Olsen (1986); Proc Conf on Management of Uncontrolled Hazardous Waste Sites, Wash. D.C., 1985

Cole, W.H. III; R.E. Enwall; G.A. Raab; C.A. Kuharic; W.H. Englemann; & L.A. Eccles (1991); "Rapid Assessment of Superfund Sites for Hazardous Materials with X-Ray Fluorescence Spectrometry"; Proc. 2nd International Symposium on Field Screening Methods for Hazardous Wastes and Toxic Chemicals, Las Vegas, Feb 1991.

Fust, G.A.; V. Tillinghast; & T. Spittler (1985); "Screening for Metals at Hazardous Waste Sites: A Rapid Cost-Effective Technique Using X-Ray Fluorescence"; Proc Conf on Management of Uncontrolled Hazardous Waste Sites, Wash. D.C., 1985

Grupp, D.J.; D.A. Everitt; R.J. Bath; & R. Spear (1989); "Use of a Transportable XRF Spectrometer for On-Site Analysis of Hg in Soils"; American Environmental Laboratory, Nov 1989

Harding, A.R. (1991); "Low Concentration Soil Contaminant Characterization Using EDXRF Analysis"; Proc. 2nd International Symposium on Field Screening Methods for Hazardous Wastes and Toxic Chemicals, Las Vegas, Feb 1991.

Pasmore, J.; S. Piorek & J. McLaughlin (1990); "Advancements in Portable XRF Technologies for On-Site Hazardous Waste Screening"

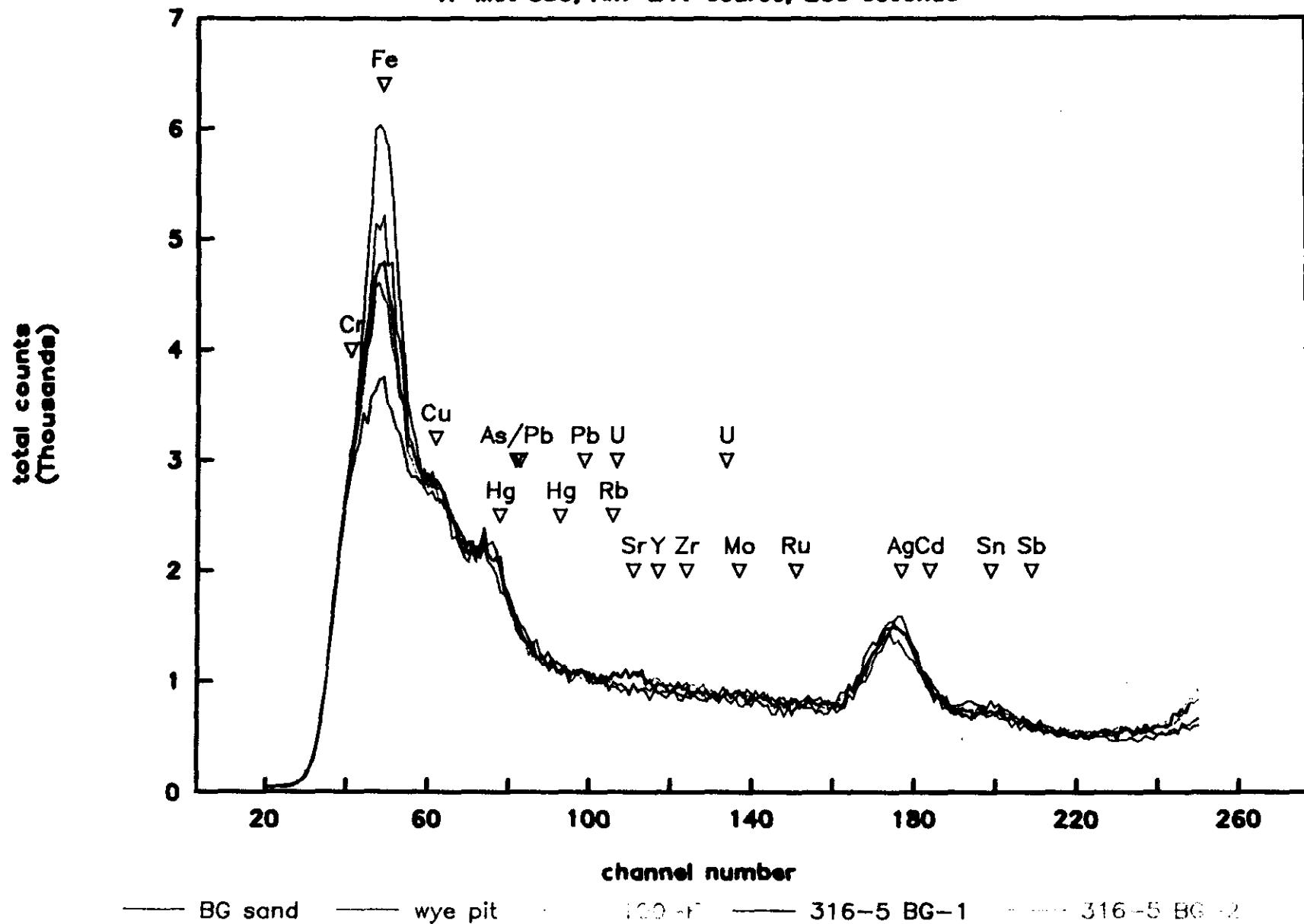
Piorek, S. (198?); "XRF Technique as a Method of Choice for On-Site Analysis of Soil Contaminants and Waste Material"

Piorek, S. & J.R. Rhodes (1988); "A New Calibration Technique for X-Ray Analyzers Used in Hazardous Waste Screening"; PRoc 5th National RCRA/Superfund Conference, Las Vegas, NV, April 1988

Raab, G.A.; D. Cardenas; S.J. Simon & L.A. Eccles (198?); " Evaluation of A Prototype Field-Portable X-Ray Fluorescence System for Hazardous Waste Screening"

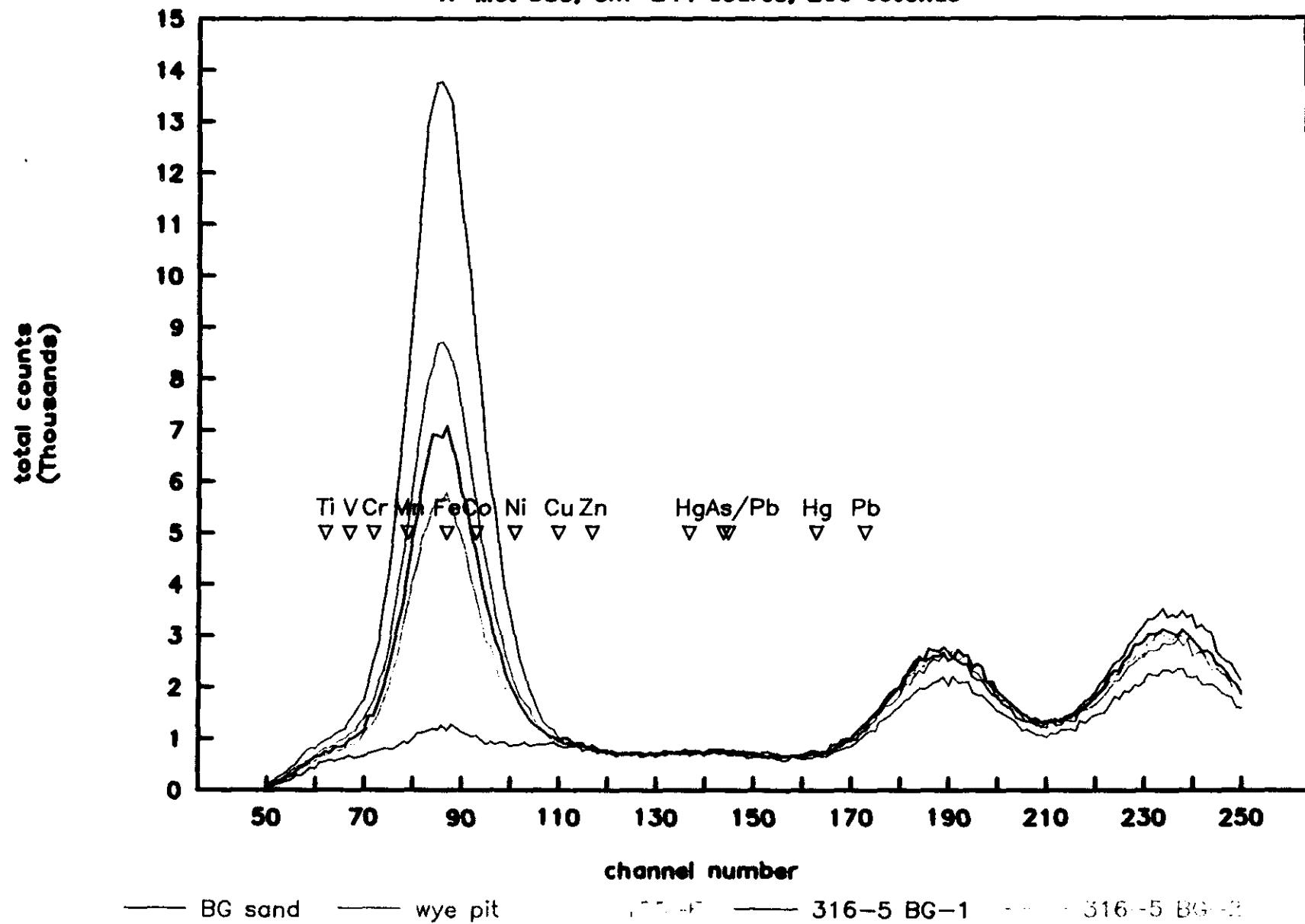
Comparison of Background Spectra

X-Met 880, Am-241 source, 200 seconds



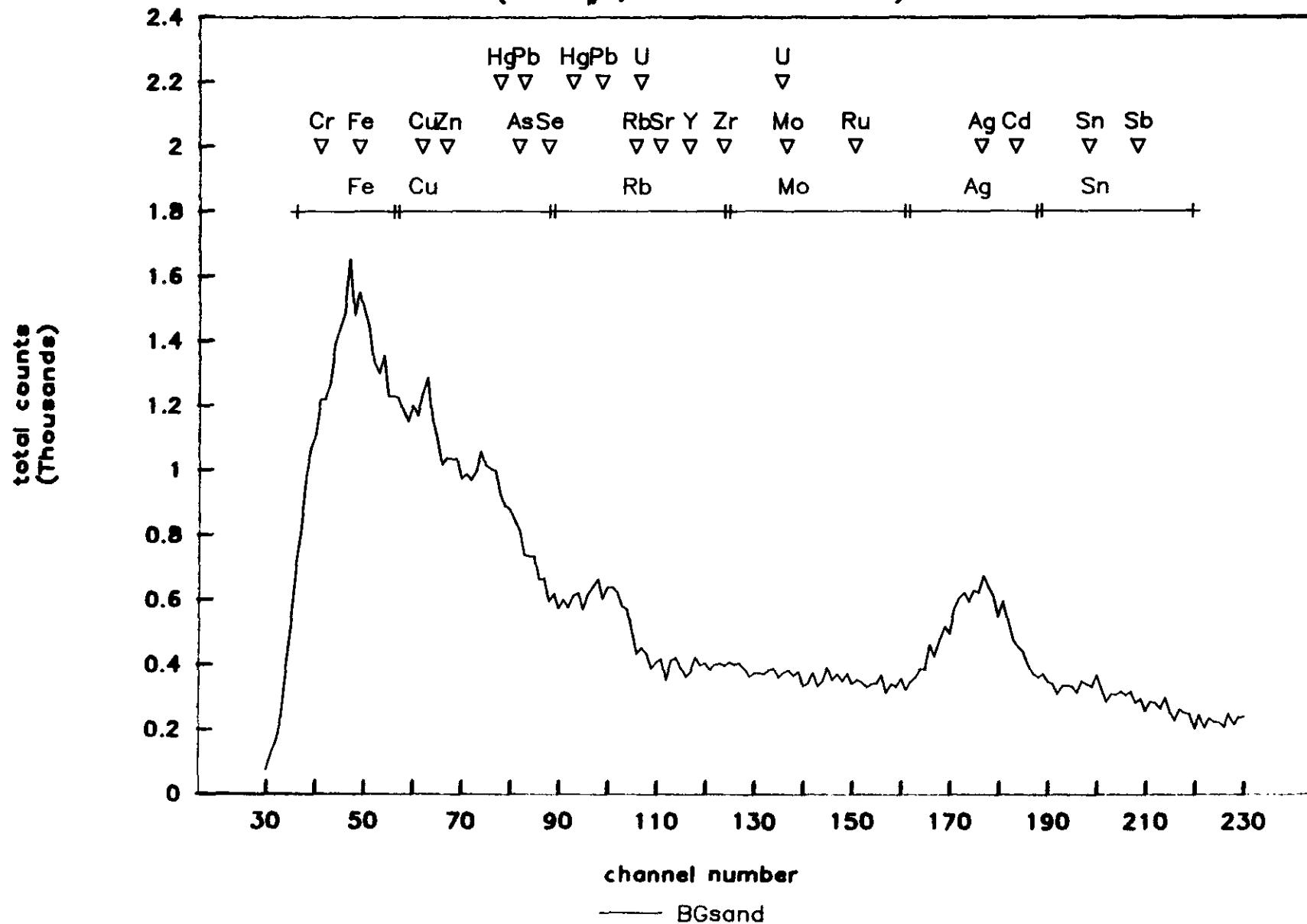
Comparison of Background Spectra

X-Met 880, Cm-244 source, 200 seconds



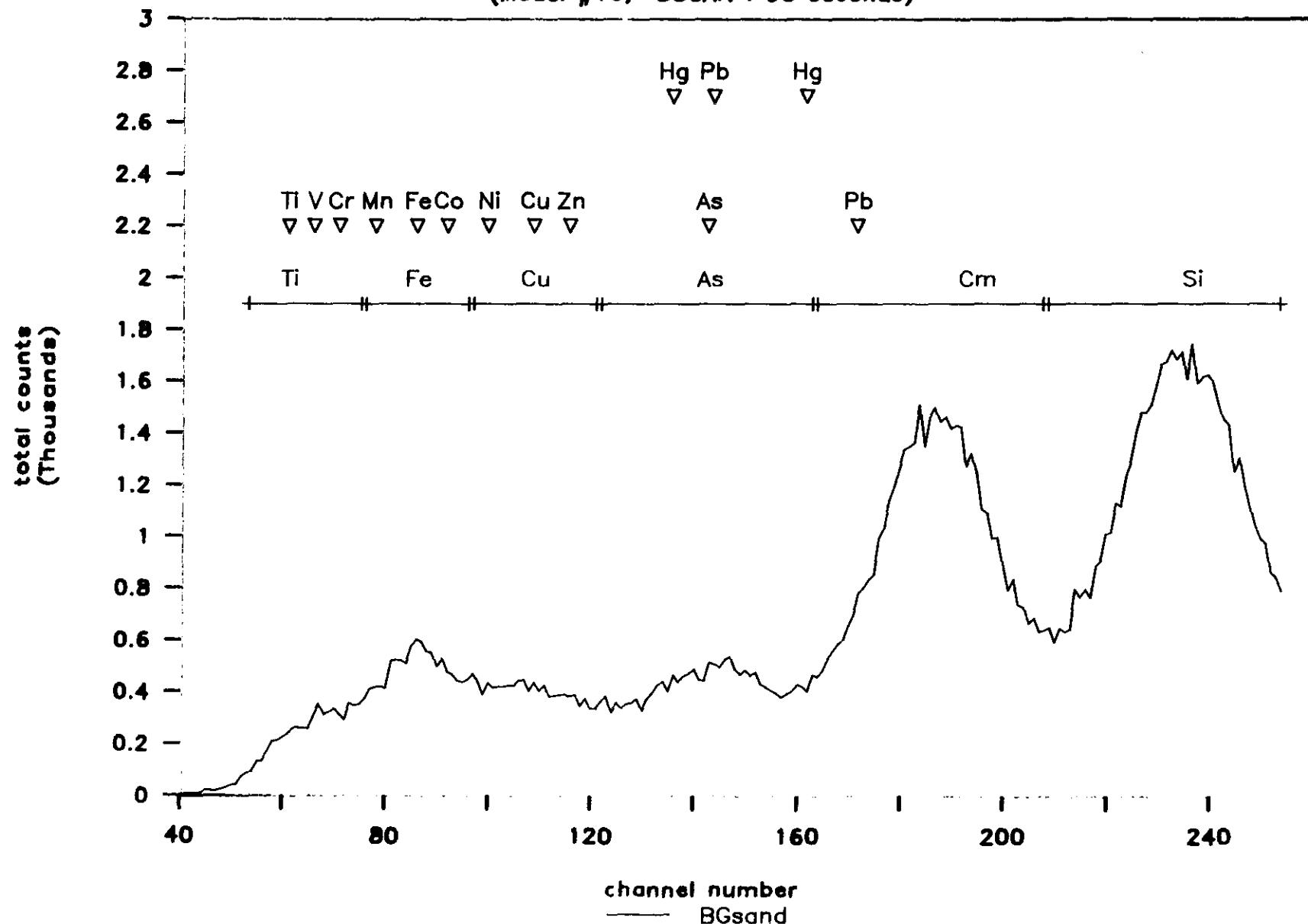
X-Met 880, Am241 Source, "Scan" Model

(Model #9, "ASCAN": 90 seconds)



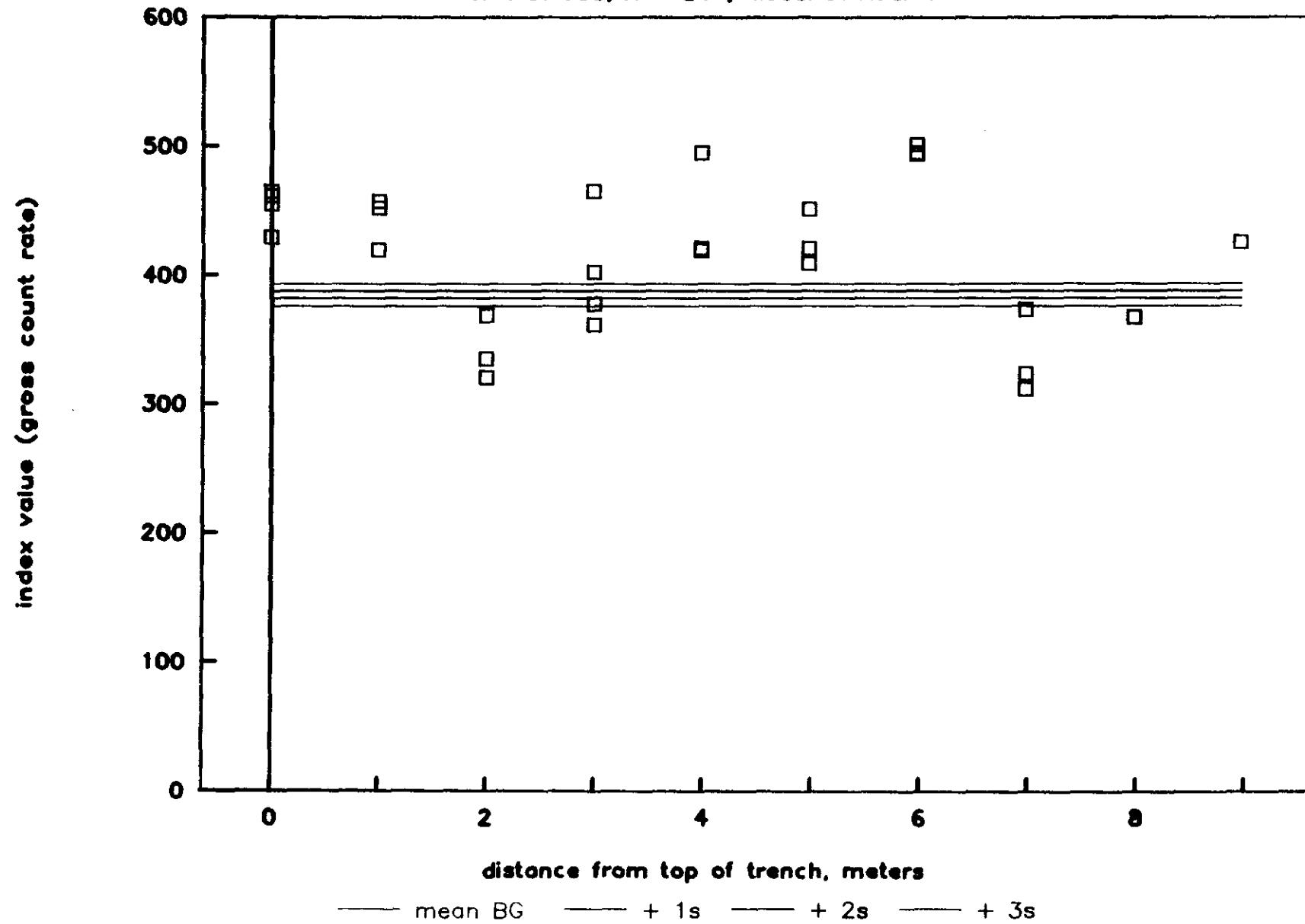
λ -Mct 880, Cm244 Source, "Scan" Model

(Model #10, "BSCAN": 90 seconds)



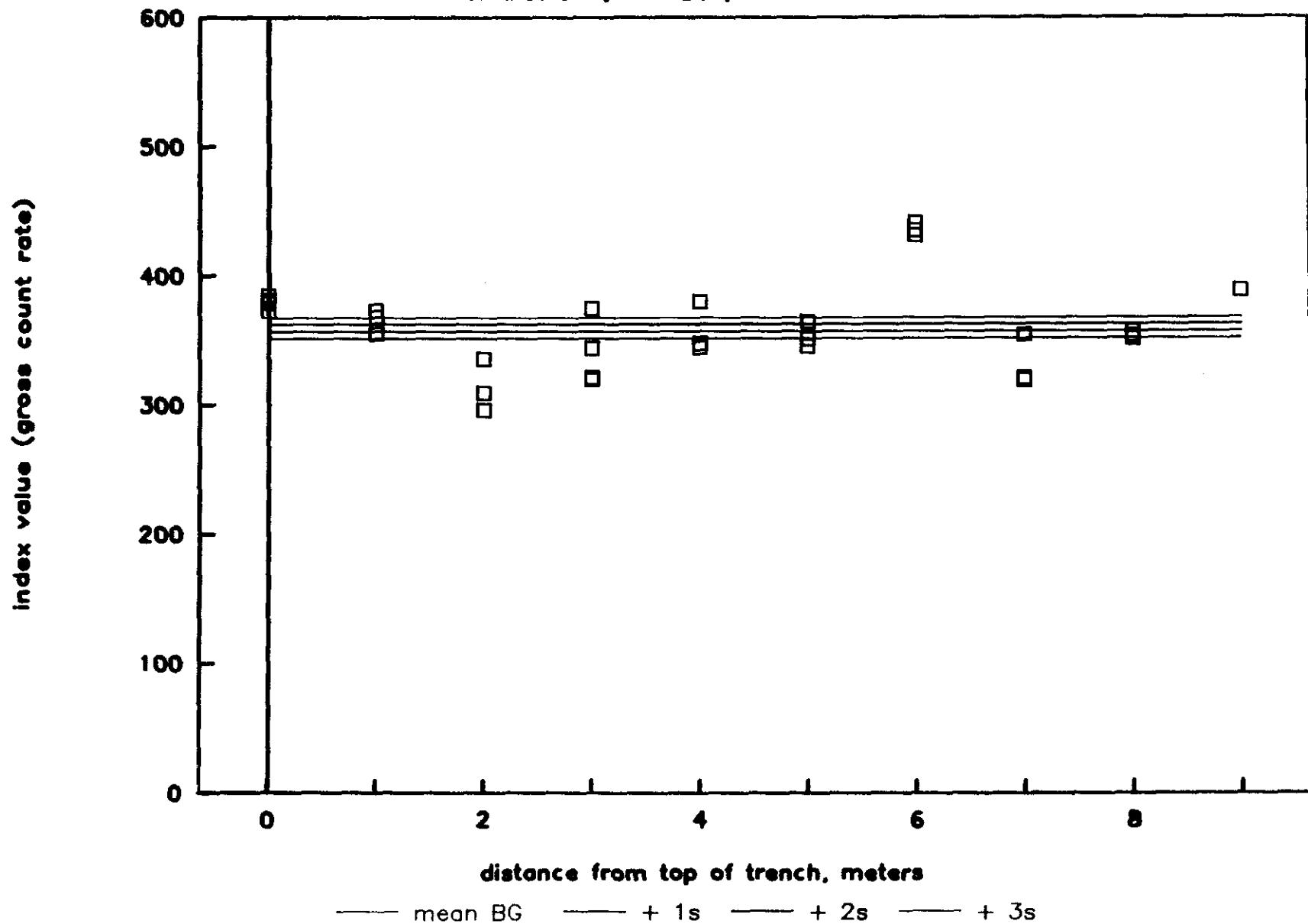
West Process Trench - Fe Index

X-Met 880, Am-241, Model 9: ASCAN



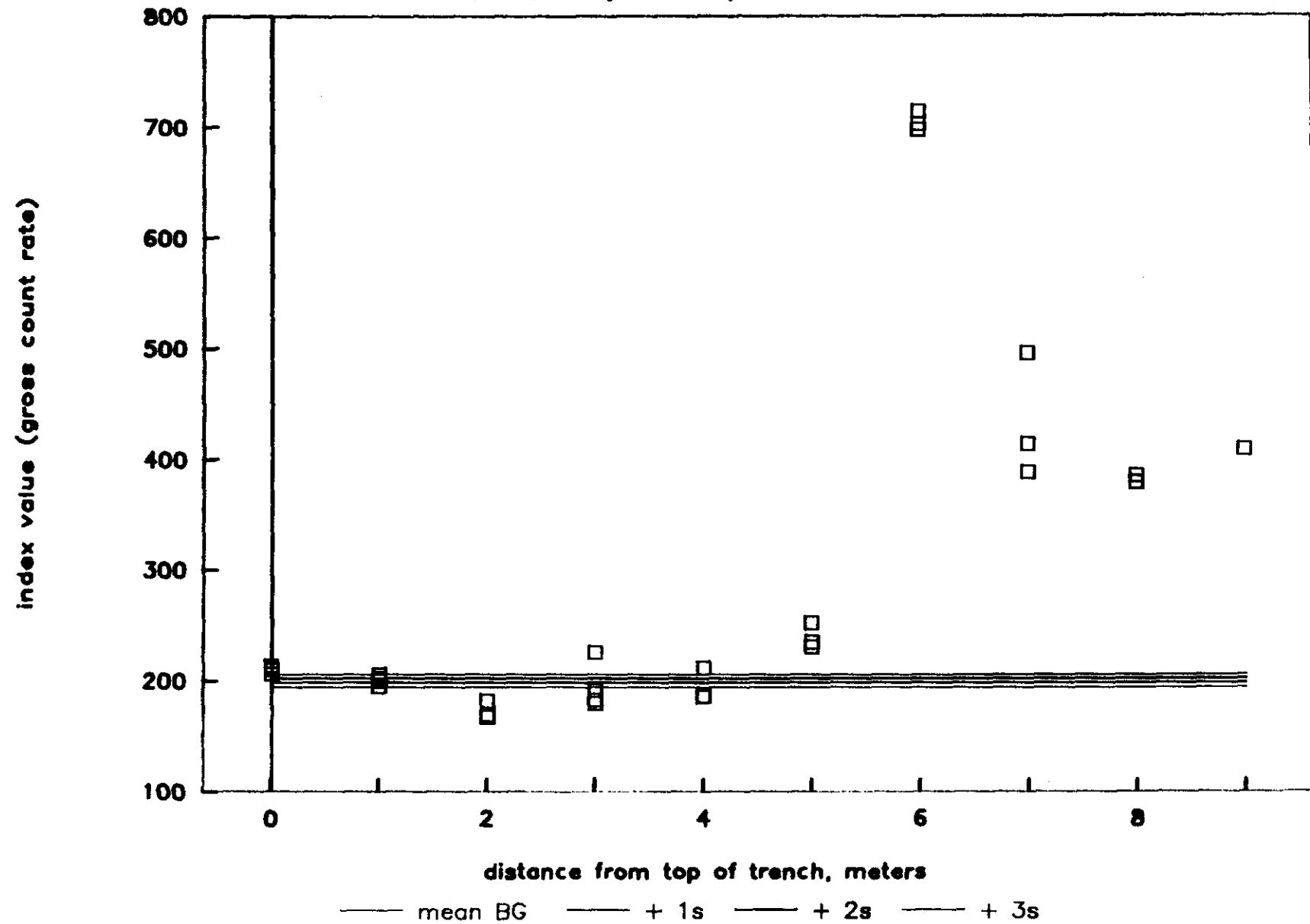
West Process Trench – Cu Index

X-Met 880, Am-241, Model 9: ASCAN



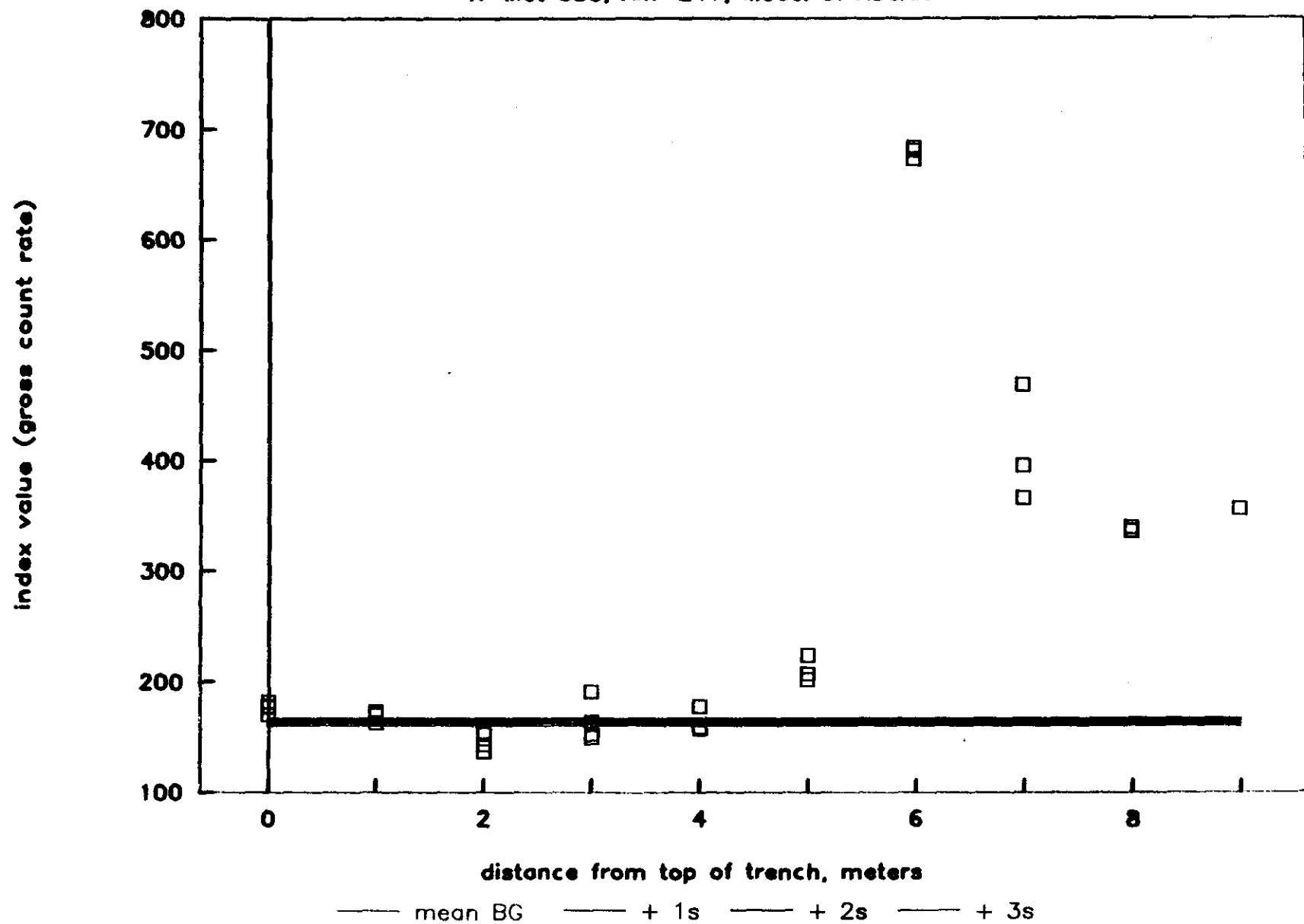
West Process Trench - Rb Index

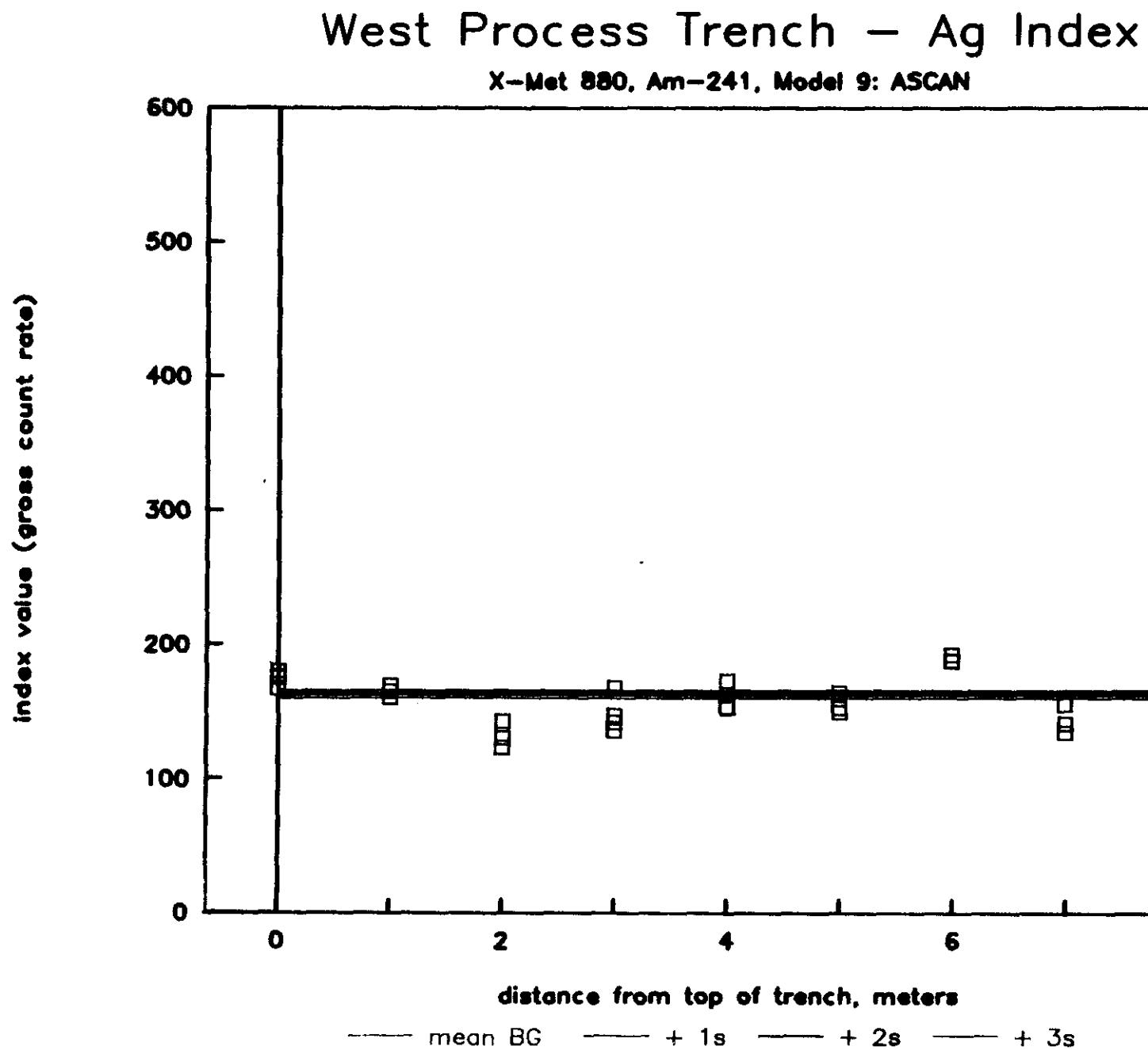
X-Met 880, Am-241, Model 9: ASCAN



West Process Trench - Mo Index

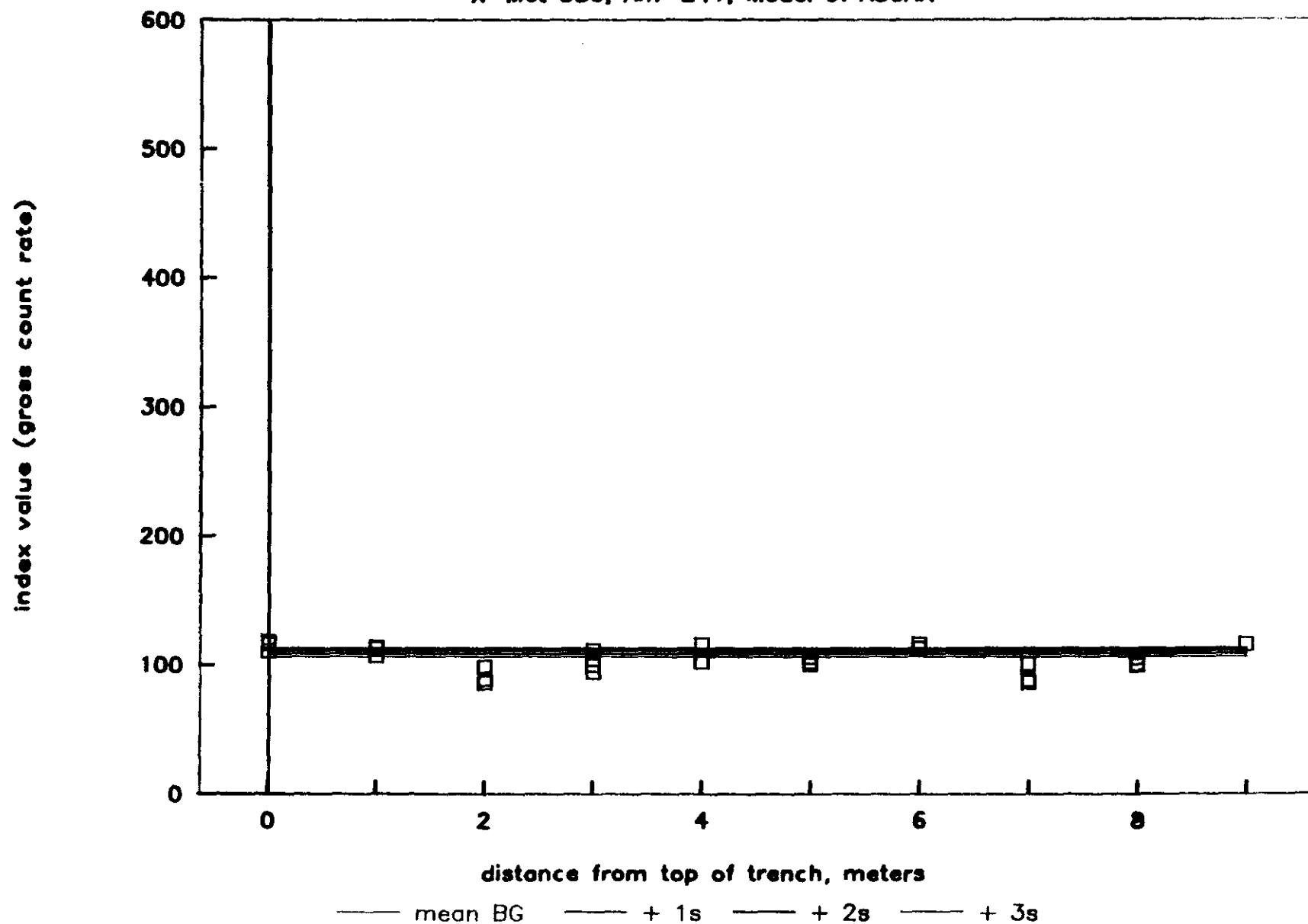
X-Met 880, Am-241, Model 9: ASCAN





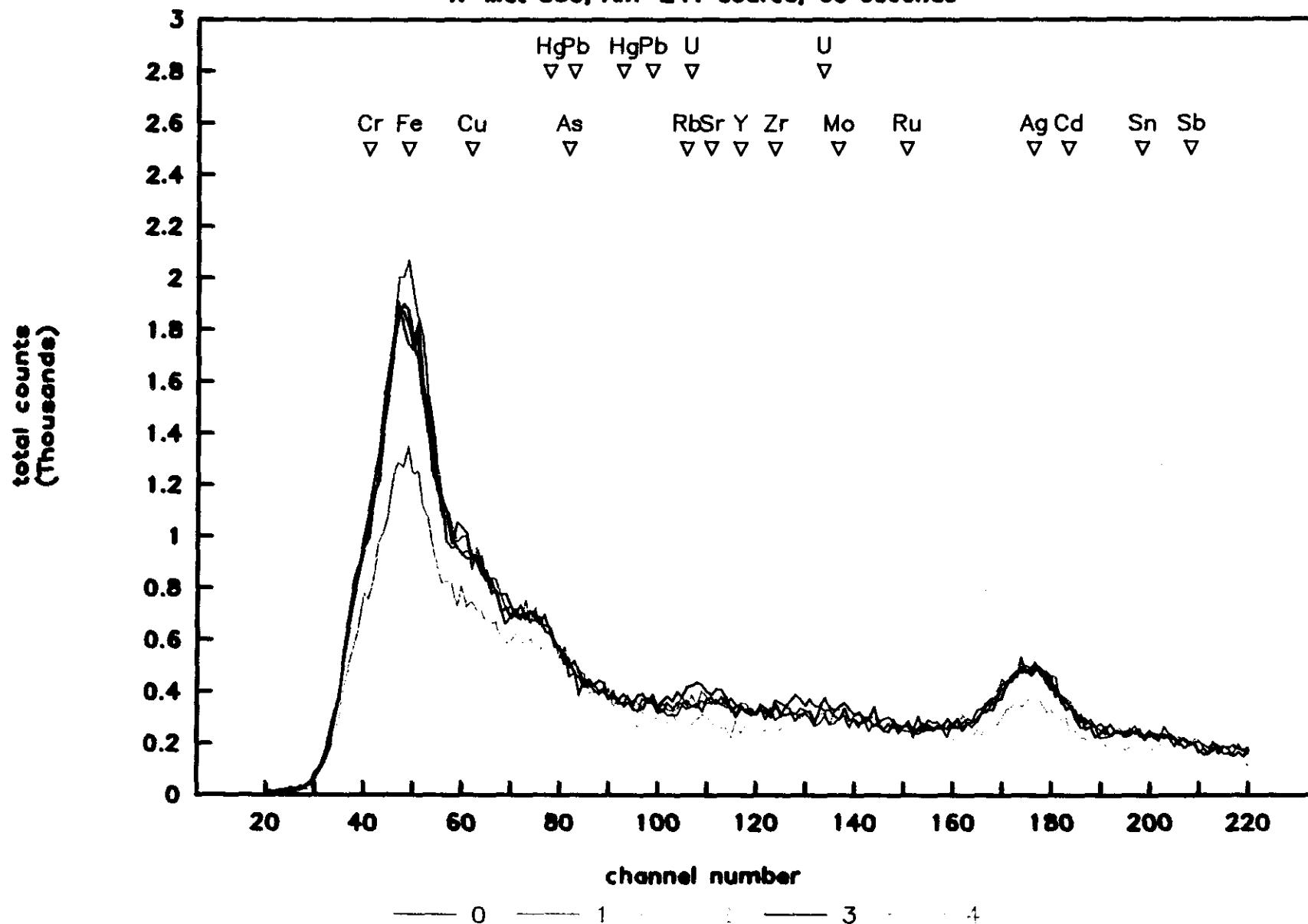
West Process Trench – Sn Index

X-Met 880, Am-241, Model 9: ASCAN



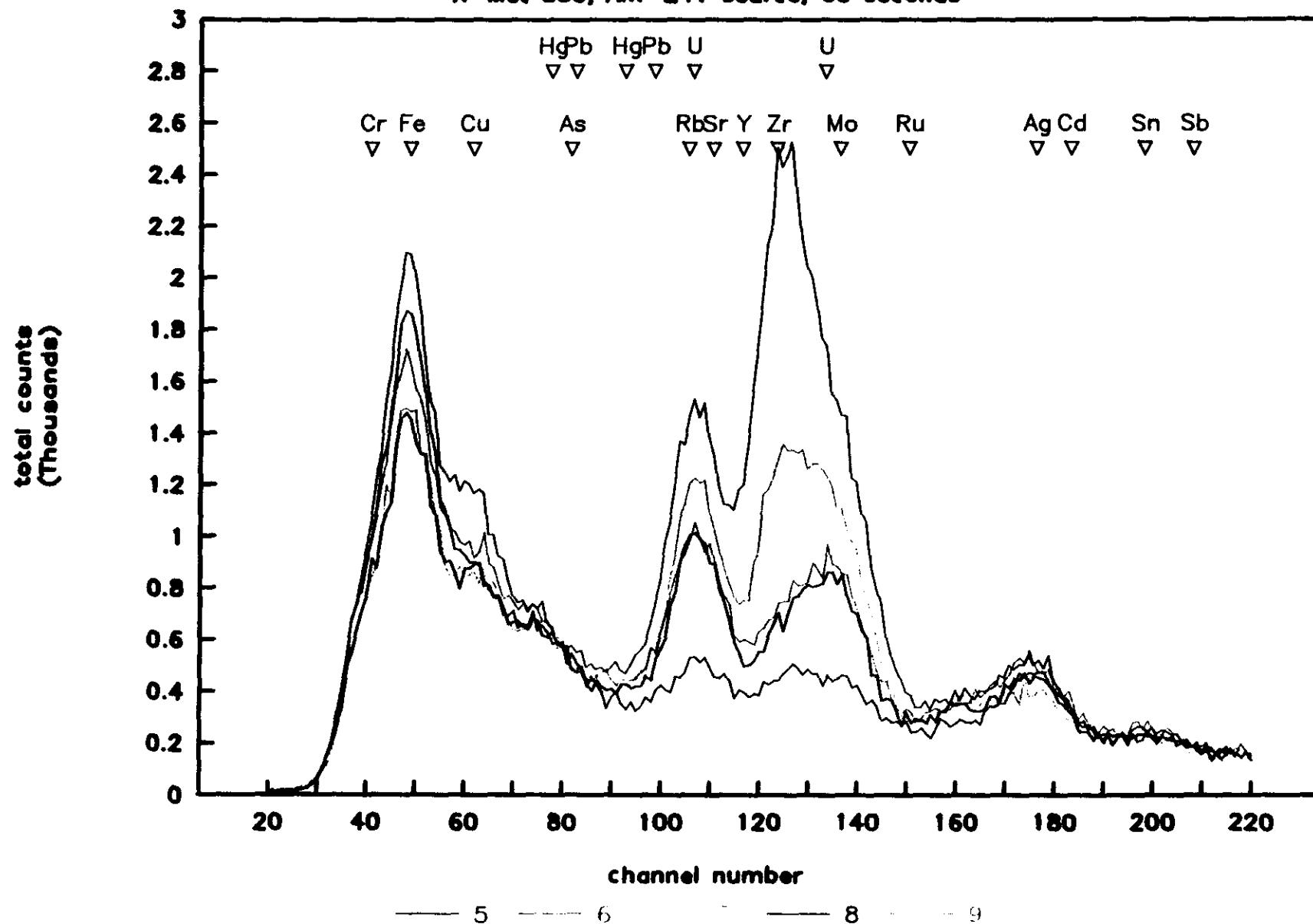
316-5 West Trench, section at sta 25m

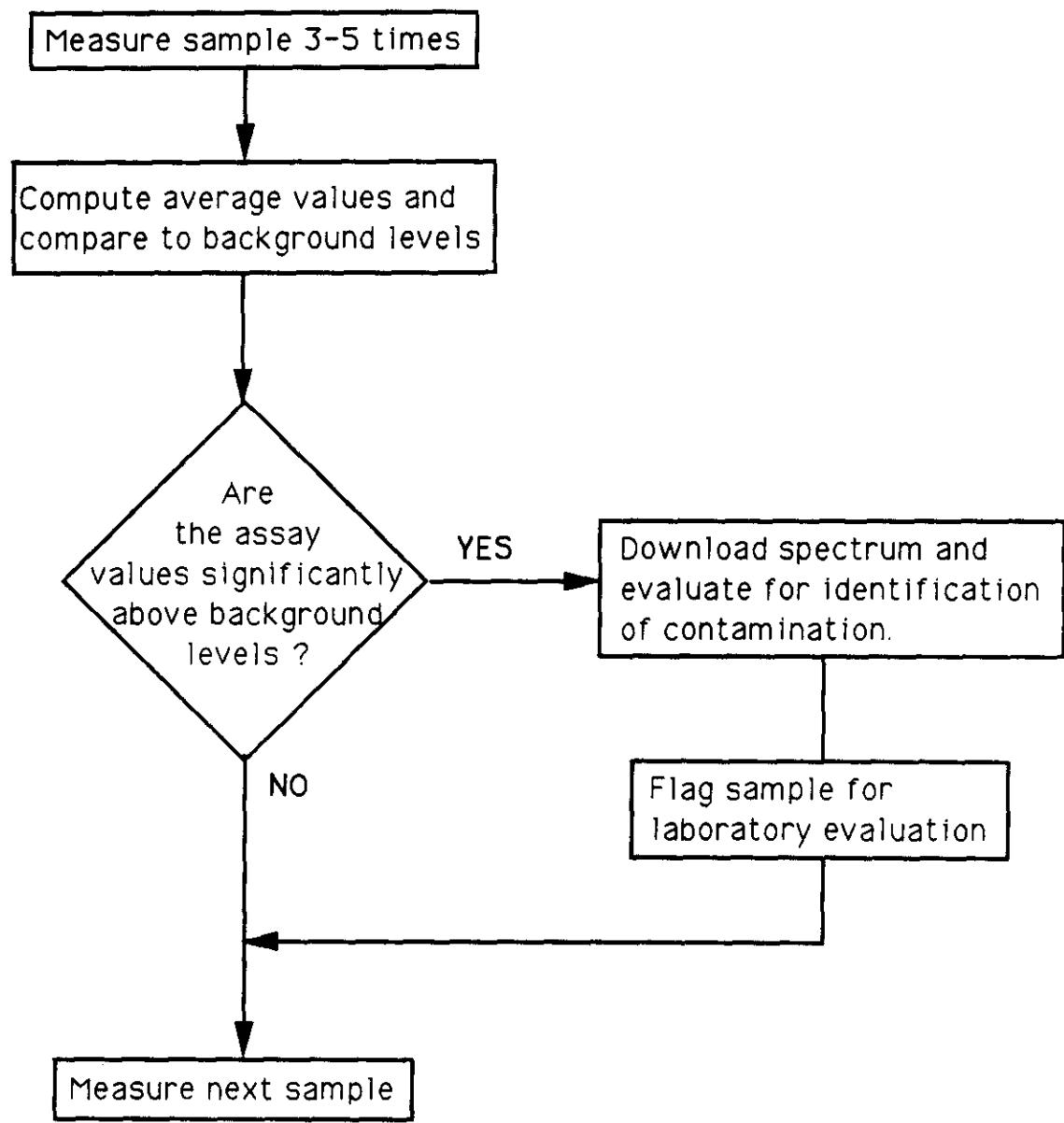
X-Met 880, Am-241 source, 60 seconds



316-5 West Trench, section at sta 25m

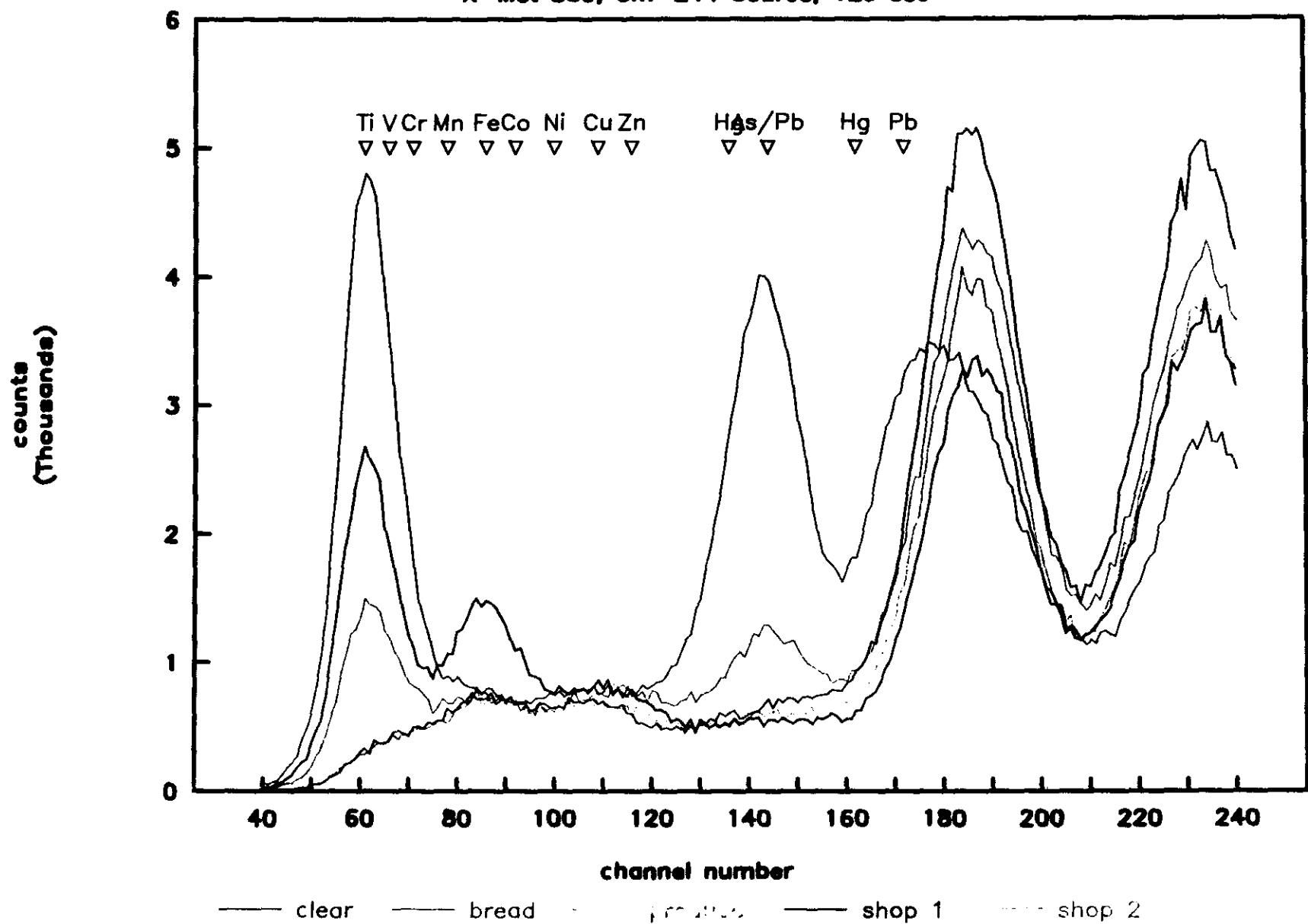
X-Met 880, Am-241 source, 60 seconds





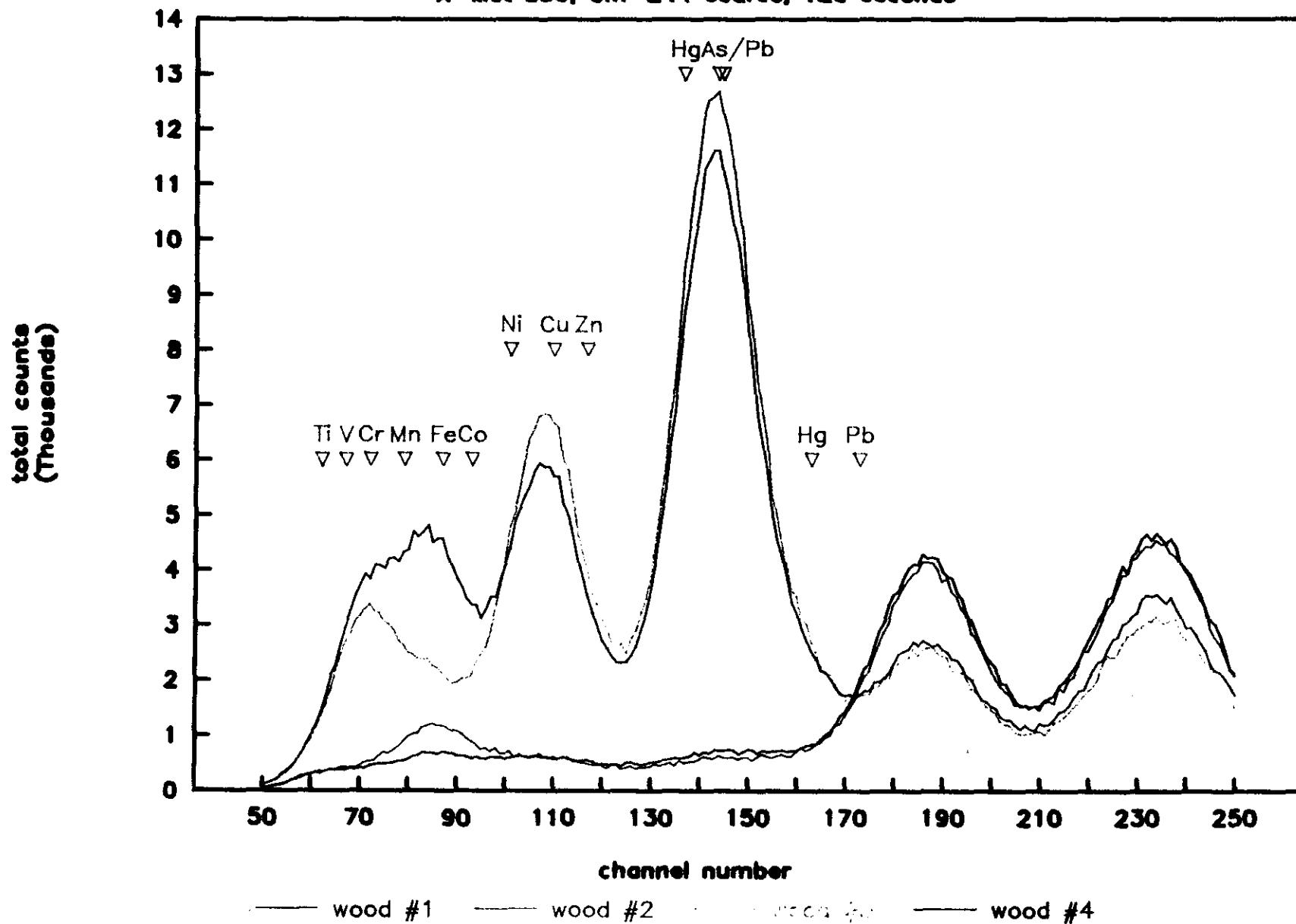
Plastic Bag Spectra

X-Met 880, Cm-244 Source, 120 sec



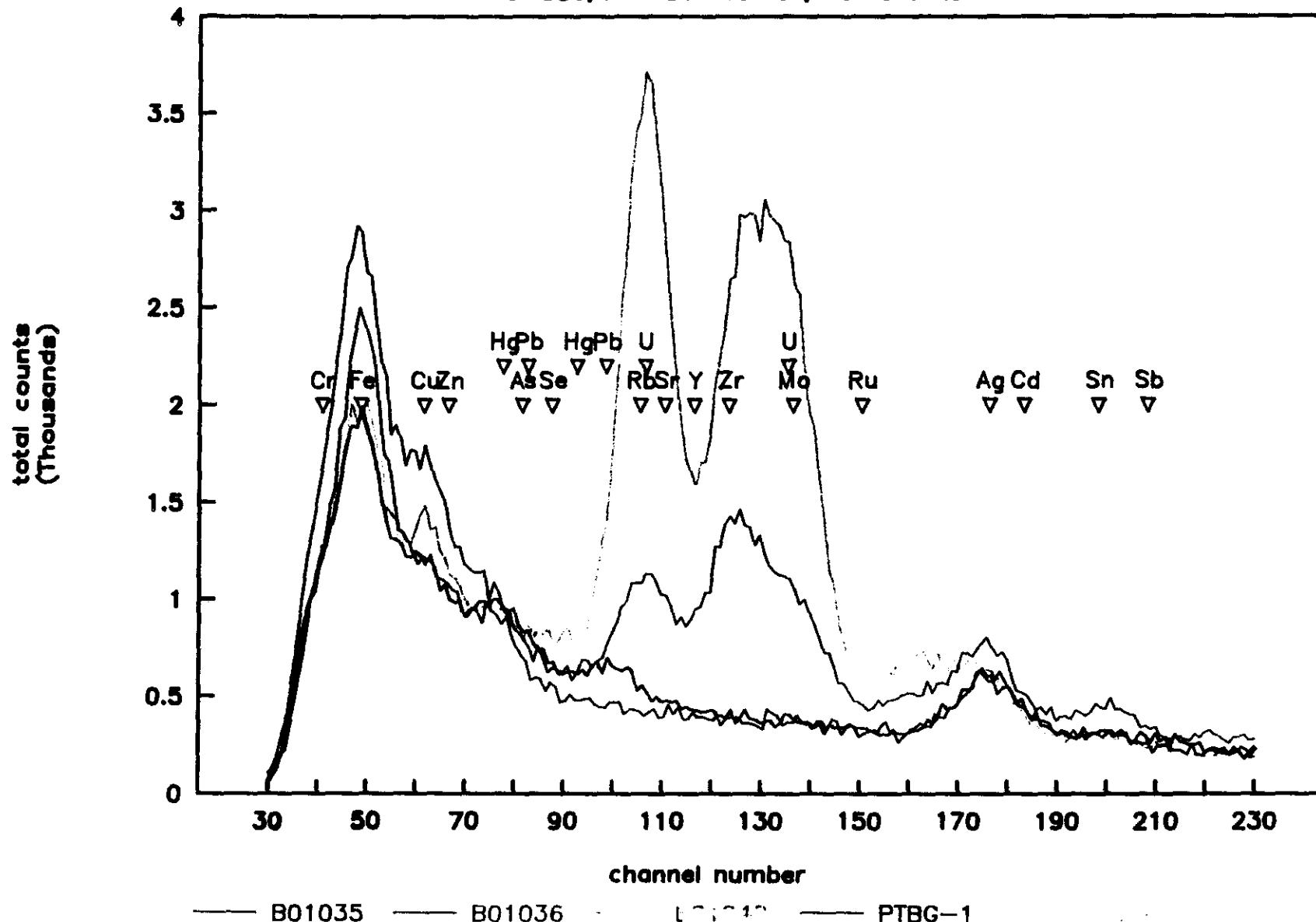
Treated vs Untreated Wood

X-Met 880, Cm-244 source, 120 seconds



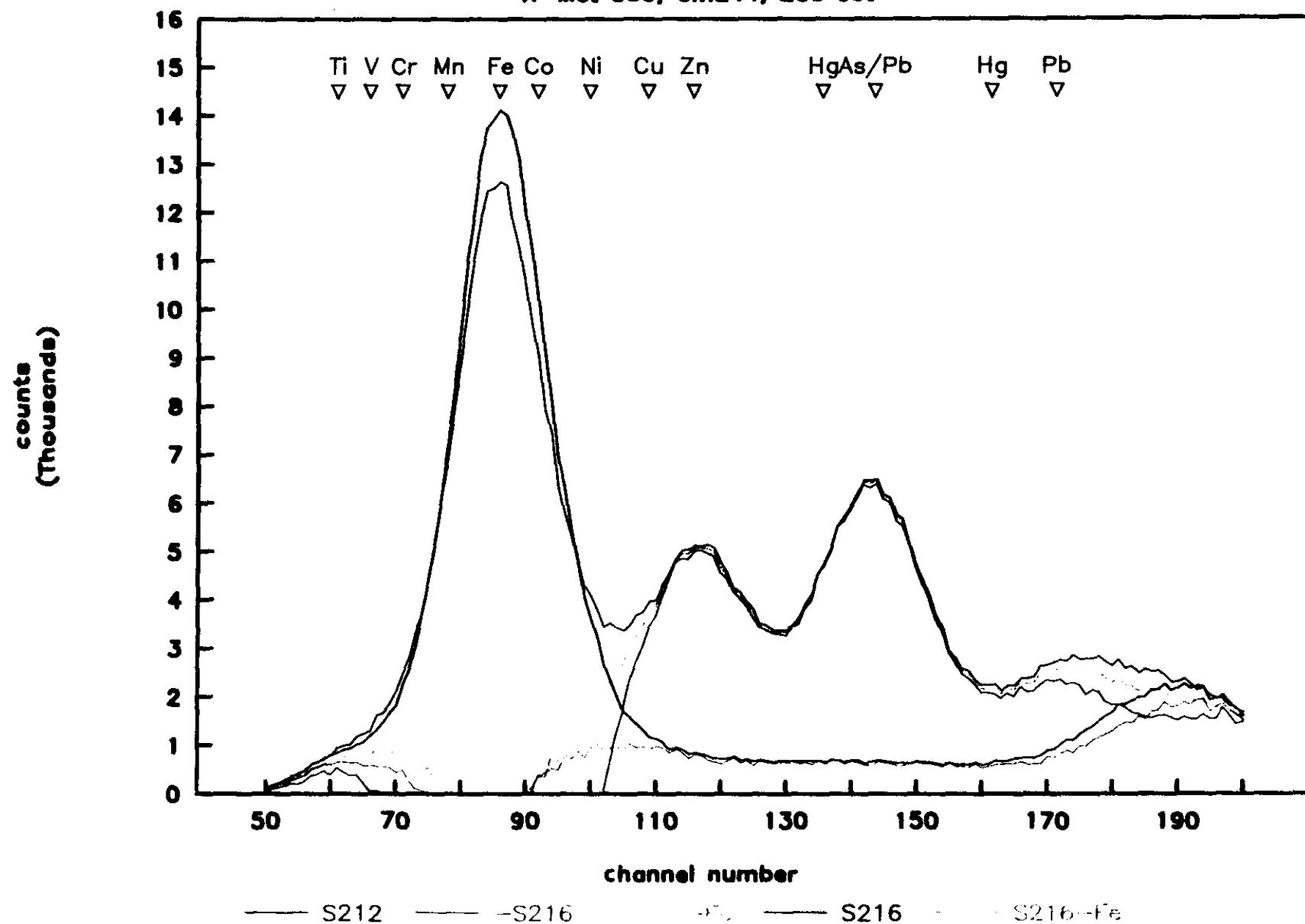
316-5 Process Trench Samples

X-Met 880, Am-241 Source, 90 seconds



Manual Correction for Fe Peak

X-Met 880, Cr244, 200 sec



EPA Analytical Levels¹

Level	Description	Turnaround Time	Detection Limits; Accuracy and Precision
I	Field screening or analysis using portable instruments. Results are not always compound-specific, but are available in real-time.	immediate	Generally qualitative only: refer to instrument manuals for sensitivity. Quantitative data if a contaminant is known and the instrument is calibrated to that substance.
II	Field analysis using more sophisticated portable analytical instruments. In some cases the instruments may be set up in a mobile laboratory on site.	immediate to a few hours	Detection limits may vary from ppb to ppm range, depending on analyte and matrix.
III	All analyses performed in an analytical laboratory using approved procedures. Level III analyses may or may not use CLP procedures, but do not usually utilize the validation or documentation procedures required of CLP level IV analyses.	days to weeks	Detection limits for SW-846 methods are typically in low ppb range. Precision and accuracy can be estimated through the use of external QC samples.
IV	CLP routine analytical services (RAS). All analyses performed in an offsite CLP analytical laboratory following CLP protocols. Rigorous QA/QC protocols and documentation.	CLP SOW allows 40 days from receipt of sample for submittal of data package. Data validation may require an additional 3-4 weeks.	Detection limits typically in low ppb range. Precision and accuracy can be evaluated by lab performance in analyzing matrix spikes. Also provided by results of quarterly performance evaluation samples.
V	Analysis by non-standard methods in an off-site analytical laboratory (not necessarily CLP). Method development or modification may be required for specific constituents or detection limits. CLP special analytical services (SAS) are level V.	varies	Depends on method and analytical requirements.

¹

EPA (1987); Data Quality Objectives for Remedial Response Activities; OSWER Directive 9355.0-7A, EPA/540/G-87/003

Summary of Analytical Levels Appropriate to Data Uses²

Data Uses	Analytical Level	Data Quality
Site characterization Monitoring during implementation	I	May be qualitative only. If the instruments are properly calibrated and data are interpreted correctly, level I methods can provide indication of contamination.
Site characterization Evaluation of alternatives Engineering design Monitoring during implementation	II	Dependent on QA/QC steps employed Data typically reported in concentration ranges
Risk assessment PRP determination Evaluation of alternatives Engineering design Monitoring during implementation	III	Similar detection limits to CLP Less rigorous QA/QC
Risk assessment PRP determination Evaluation of alternatives Engineering Design	IV	Goal is legally defensible data of known quality Rigorous QA/QC
Risk assessment PRP determination	V	Method-specific

²

EPA (1987); Data Quality Objectives for Remedial Response Activities; OSWER Directive 9355.0-7A, EPA/540/G-87/004

Three Levels of Analytical Requirements for Metals¹

Level	Degree of Analytical Requirement			Purpose
	precision	accuracy	IDL	
1 (IV)	$\pm 5\%$	$\pm 10\%$	ppb	Litigation and regulatory enforcement
2 (III)	$\pm 10\%$	$\pm 15\%$	ppm	Evaluate and assess average pollutant exposure to humans and animals
3 (I, II)	$\pm 10\%$	$\pm 50\%$	$\leq 1000\text{ppm}$	Screening, preliminary evaluation and on-site decision-making

¹

Raab, G.A.; D. Cardenas; S.J. Simon & L.A. Eccles (198?); "Evaluation of A Prototype Field-Portable X-Ray Fluorescence System for Hazardous Waste Screening"

Comparison of Portable XRF Units

	X-Met 880 (Outokumpu)	Quantos FPX (Texas Nuclear)	MAP (SciTec Corp)
detector	gas proportional Si(Li) (N2 cooled)	HgI2 (elec cooled)	silicon
available sources	Am241 Cd109 Fe55 Cm244 (2 sources in a probe)	Am241 Cd109 Fe55 (3 sources in a probe)	Co57 Am241 Cd109
measurement time	1-32,767 sec	typ 15-200 sec	15-3000 sec
spectra channels	256	2000 X 2	256
spectra storage	last	30	325
elements/model	10 (6 output)	25	?
model storage	32	50	?
results storage	last (data logger available)	100	1 megabyte (spectra & results)
measurement activation	probe trigger	software control	software control with safety
PC interface	RS-232 ProComm/ESP	RS-232	RS-232 MAP software
empirical calibration ?	yes assay & index mode		yes
fundamental parameters software ?	in development	available	?
comments	Widely used by EPA	Available early '92	Borehole probe available

**WASTE INFORMATION DATA SYSTEM
OVERVIEW AND STATUS**

**NANCY HOMAN
ENVIRONMENTAL DATA MANAGEMENT
GROUP**

**UNIT MANAGERS MEETING
SEPTEMBER 18, 1991**

WIDS OBJECTIVE

- **Provide reliable and traceable summary data about waste sites for:**
 - long range waste management planning
 - interim stabilization planning
 - site characterization and cleanup efforts
 - administrative and regulatory reporting
 - subject specific requests
 - permit and NEPA preparation

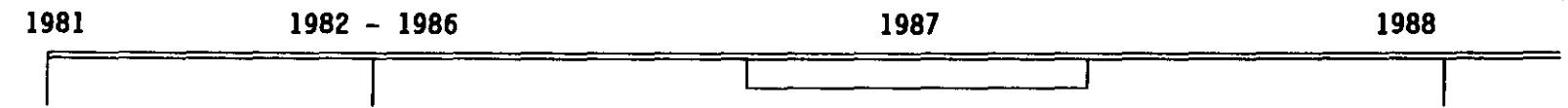
WHAT YOU CAN EXPECT TO FIND IN THE DATABASE

- **Kinds of Sites/Facilities**
 - sites addressed by the TPA
 - TSD Permitted Facilities
 - surplus facilities, D&D facilities and other contaminated areas
- **Site Specific Information**
 - historical information and physical descriptions
 - wastes received or disposed
 - estimated radionuclide and hazardous chemical inventories
 - environmental monitoring and characterization information

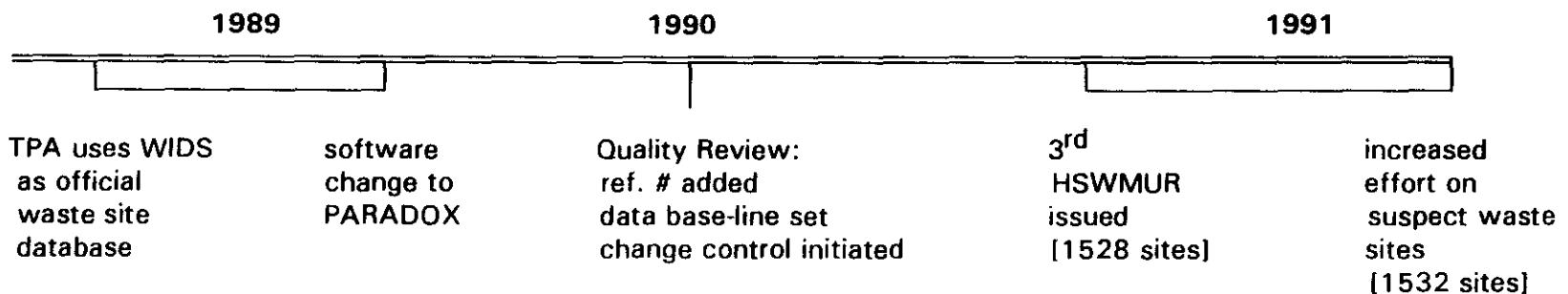
WHAT YOU CAN EXPECT TO FIND IN PAPER DOCUMENTATION

- Paper backup of all the electronic data
- Library of references and pertinent historical documents
- File of suspect waste sites that were investigated but not entered

WIDS HISTORY



1981	1982 - 1986	1987	1988
WIDS established on mainframe System 2000	goes thru: 3 software changes 3 hardware changes [600 sites]	1 st HSWMUR issued	HSWMUR data incorp'd into WIDS [1400 sites]
			2 nd HSWMUR issued [1500 sites]



1989	1990	1991
TPA uses WIDS as official waste site database	software change to PARADOX	Quality Review: ref. # added data base-line set change control initiated
		3 rd HSWMUR issued [1528 sites]
		increased effort on suspect waste sites [1532 sites]

INFORMATION ACQUISITION

- **Data Sources**

- published studies, documents
- routine reports
- drawings
- field investigations

- **Update Frequencies**

- Annual

- Radiological Surface Surveys

- Radionuclide inventories

- General, all sites for HSWMUR

- Quarterly

- Tank status

- Miscellaneous

- Site additions

- Discrepancy corrections

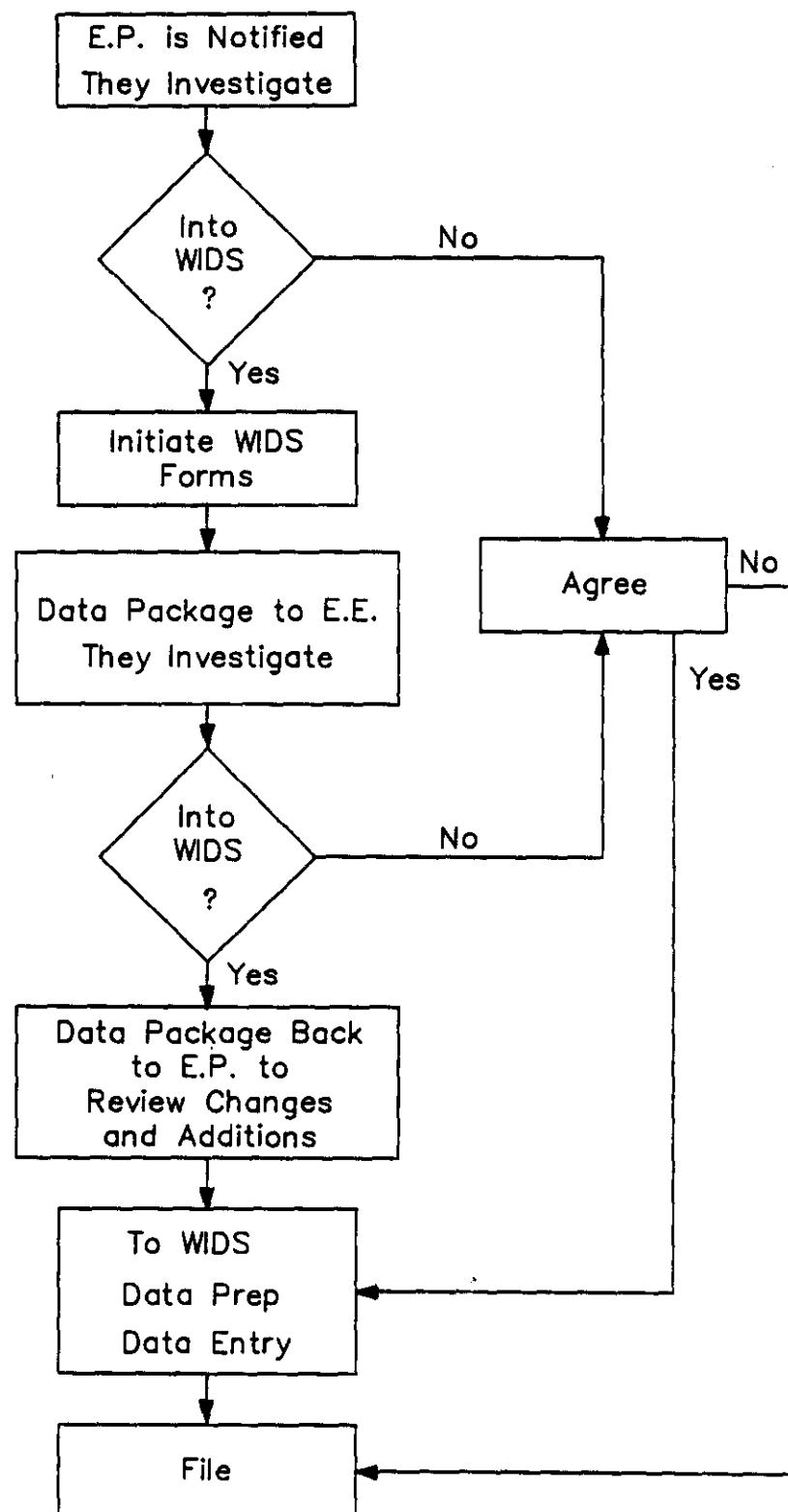
- Operable Unit Work Plan consistency

- Furnishing absent data

IMPORTANT ASPECTS OF THE DATA ACQUISITION FORM

- Provides vehicle for consistent and complete data entry
- Documents the review and approval signatures
- Links data to its corresponding reference
- Serves as the Change Control Record

SITE ADDITIONS INTO WIDS



UPDATE ON HANFORD WELL SURVEYING

**Mike Thompson - Unit Manager - DOE-RL
John Jacobson - Project Manager - CENPW
Arthur Bennett - Technical Manager - CENPW**

18 September 1991

PURPOSE

- Establish primary and secondary survey control networks on the Hanford Site, along with accuracies of surveyed lines in horizontal distances and elevation differences.
- Survey horizontal locations and vertical elevations of selected and prioritized existing wells and boreholes, used in monitoring and hydrogeologic investigations for constructing water level elevation contour maps.
- Provide list and plan view plot of all surveyed points in new survey datums.

PRIMARY AND SECONDARY CONTROL NETWORKS

- Classification - Primary Horizontal - Second Order, Class I (1:50,000)
 - Primary Vertical - Second Order, Class I (1.0)
 - Secondary Horizontal - Second Order, Class II (1:20,000)
 - Secondary Vertical - Second Order, Class II (1.3)
- National Geodetic Survey (NGS) will survey and establish primary and secondary horizontal and vertical survey control network.
- Network will tie into National network in east Pasco, Washington.
- Monuments will be set along existing roads on the Hanford Site.
- NGS procedures developed and approved by February 1992.
- NGS field survey work starts March 1992 and completes by June 1992.
- NGS data validation available July 1992.

DATUMS

- Horizontal Locations - Washington Coordinate System of 1983, South Zone (WCS83S).
Coordinates in meters reported to 3 decimal places.
 - North American Datum of 1983 (NAD83).
Coordinates in degrees, minutes, and seconds reported to 5 decimal places (seconds).
- Vertical Locations
 - National Geodetic Vertical Datum of 1929 (NGVD29).
Elevations in feet reported to 2 decimal places.
 - North American Vertical Datum of 1988 (NAVD88).
- Elevations in meters reported to 3 decimal places.

WELLS AND BOREHOLES

- FY92 Lists and Priorities -	300-FF-5	46
	300-FF-1	8
	1100-EM-1	40
	200-BP-1	49
	100 Aggregate Area	256
	ERA (200 West)	70

		467
- FY93/94 Lists and Priorities -	RCRA and Operational Wells	294
	Oversight Program PNL	162
	Vadose Zone Logging and Monitoring	1,423
	Other 200 East Area	78
	Other 200 West Area	112

		2,069

FY92 WELLS AND BOREHOLES

- Classification - Wells and Borehole Horizontal - Third Order, Class I (1:10,000).
 - Wells and Boreholes Vertical - Third Order (2.0)
- Corps will use contractor to survey wells and boreholes from NGS primary and secondary survey networks.
- Horizontal work will be accomplished by satellite doppler positioning.
- Vertical work will be accomplished by geodetic leveling.
- Contractor procedures developed and approved by April 1992.
- Contractor field survey work starts April 1992 and completes by June 1992.
- Contractor data validation, plan view plots, and final report issued 30 September 1992.

**STATEMENT OF WORK
TO
SURVEY LOCATIONS AND ELEVATIONS FOR
HANFORD SITE WELLS AND BOREHOLES**

1.0 PURPOSE

Elevations and horizontal locations of wells and boreholes are necessary components for monitoring and for constructing water level elevation contour maps used in hydrogeologic investigations. Specifically, the objective is to obtain elevations and horizontal locations for selected wells and boreholes along with the accuracies of the elevation differences and horizontal distances for the surveyed lines.

2.0 SCOPE

2.1 Priorities for performing the surveys have been determined by groups as follows:

- 2.1.1 Approved work plans for four operable units:
 - a. 300-FF-5
 - b. 300-FF-1
 - c. 1100-EM-1
 - d. 200-BP-1
- 2.1.2 100 Aggregate Area
- 2.1.3 Expedited Response Actions (ERA)
- 2.1.4 RCRA and Operational Wells
- 2.1.5 Oversight Program, PNL
- 2.1.6 Vadose Zone Logging and Monitoring
- 2.1.7 Other 200 East Area
- 2.1.8 Other 200 West Area

2.2 Attachment 1 lists the specific wells and boreholes to be surveyed. Attachment 2 contains the current list of wells and boreholes to be surveyed in FY92.

3.0 TECHNICAL REQUIREMENTS

3.1 General Requirements

- 3.1.1 Horizontal locations shall be obtained on the center of the well casing.
- 3.1.2 Elevations shall be obtained for points on the well casing and survey points marked as follows:

- a. Top of the stainless steel protective casing.
An "X" shall be stamped on the north edge of
casing and the elevation taken there.
- b. Top of outer casing, if existing.
- c. Top of brass cap in concrete pad.
- d. Top of individual piezometers, if existing.
- e. Any other configurations by special
instructions.

3.2 Datums

- 3.2.1 Horizontal locations shall be referenced to the Washington Coordinate System of 1983, South Zone (WCS83S) as defined in Chapter 58.20 RCW, and to the North American Datum of 1983 (NAD83). Horizontal coordinates in the WCS83S shall be expressed as northing and easting in meters and reported to three decimal places. Horizontal coordinates in the NAD83 shall be expressed as latitude and longitude in degrees, minutes and seconds, with the seconds being reported to five decimal places.
- 3.2.2 Elevations shall be referenced to the National Geodetic Vertical Datum of 1929 (NGVD29) and to the North American Vertical Datum of 1988 (NAVD88), if available. Elevations on the NGVD29 shall be expressed in U.S. Survey Feet and reported to two decimal places. Elevations on the NAVD88 shall be expressed in meters and reported to three decimal places.

3.3 Primary Survey Control

- 3.3.1 The National Geodetic Survey (NGS) publishes horizontal coordinates for control stations in both the WCS83S and NAD83 reference systems. These control stations and their published values shall be the primary horizontal control upon which all other horizontal control surveys shall be based. The minimum classification shall be second-order, class I.
- 3.3.2 Likewise, for vertical control, the NGS publishes elevations for vertical control stations (benchmarks).

These benchmarks shall provide the primary vertical control, upon which all other vertical control surveys shall be based. The minimum classification shall be second-order, class I.

3.4 Secondary Survey Control

- 3.4.1 Additional control stations shall be established to supplement the primary survey control, to the extent necessary to minimize cost while maximizing schedule performance. The number and location of these secondary control stations shall be chosen so as to optimize the survey of the wells and boreholes. Extraneous control points that provide little or no production value shall not be established. A control station may serve as both a horizontal and vertical control point if it is expedient to do so.
- 3.4.2 Monumentation for secondary control stations shall be stable and as permanent as practical, shall extend below the frost line and shall have a metal disk which shall be stamped with a station identifier. There are many existing monuments located throughout the work areas which may be utilized for secondary control monumentation. All new monuments used for secondary control shall be stamped with "HSWB" and a three digit number. For example, "HSWB-005" or "HSWB-120". The three digit number shall not be duplicated.
- 3.4.3 Horizontal and vertical control shall be accomplished according to: Standards and Specifications for Geodetic Control Networks, Federal Geodetic Control Committee, Rockville, MD., September 1984 (FGCC). The minimum classification for horizontal shall be second-order, class II. The minimum classification for vertical shall be second-order, class II.

3.5 Wells and Boreholes

- 3.5.1 Surveys to establish elevations on the selected points in 3.1.2 shall meet the third-order specifications only of FGCC, with any modifications to reflect that this is a survey of existing wells, not a densification of the national vertical network. For example, FGCC requires that the survey is required to connect to any network control points within 3 km of its path and that the survey requires a minimum of four check connections, two at each end. These requirements may be excessive for a short level line connecting a well with primary or secondary control. The FGCC specifications should be modified to eliminate constraints which add cost, but do not add value to the stated purpose of this SOW. Modifications to FGCC specifications should be addressed in survey procedures as required in 3.8.
- 3.5.2 Surveys to establish locations in 3.1.1 shall be done per FGCC to meet a minimum classification of third-order, class I. As with the vertical, modifications may be needed to be made to the specifications. For example, all the elements in network geometry under the traverse category should be examined. Minimum spacing is 0.5 km. In many cases secondary control will be closer to the wells than that. An optimum geometric configuration is required. This may be at variance with where the wells are located. The minimum number of benchmark ties is two. This is a realistic requirement for densification of the national horizontal network, but perhaps not for a relatively short connection of a well to primary or secondary control. The horizontal specifications should be modified to accommodate the survey of existing wells and yet to fulfill the stated SOW's purpose. Modifications to FGCC specifications should be addressed in survey procedures as required in 3.8.

3.6 Instrumentation

- 3.6.1 If a micrometer is utilized, it shall be in place on the level when the collimation is performed. The level rod shall undergo a calibration, traceable to the National Institute of Standards and Technology (NIST). Units of the level rod scale may be based on the U.S. Survey Foot or the meter.
- 3.6.2 Electronic distance meters (EDM) and steel tapes, if used, shall undergo a calibration traceable to the NIST. Calibration shall be performed annually. Proper operation of optical plummets shall be verified at least weekly. GPS receivers may be used only for horizontal control. Control shall be performed by relative positioning techniques where two or more receivers are collecting carrier phase measurements simultaneously.
- A photogrammetric survey may be used for horizontal control on the wells if it fulfills the requirements of FGCC, 3.6, and is shown to be cost effective.

3.7 Data Collection and Analysis

- 3.7.1 Field notes shall be recorded on 8 1/2" x 11" field note forms per DOE 6430.1A (0202-1). Each page shall provide traceability to this SOW, date, survey task, personnel, and instrumentation.
- 3.7.2 Electronically collected data shall be printed out in readable form. Data collected by total station and data collector, for example, would include but not be limited to occupied instrument station, target height, date, crew, angles, distances, etc.
- 3.7.3 GPS observation files shall be maintained until coordinates have been permanently assigned and accepted by the Department of Energy, Richland Operations Office (DOE-RL). Hard copy required

for permanent documentation shall be whatever is needed to verify the quality of the final baseline vectors and how and when they were obtained, including for example, the basis for survey control.

- 3.7.4 Monuments found and set shall be identified.
- 3.7.5 Reductions of field data may be made by hand calculations or computer. However they are done, a reviewer must be able to follow the raw data from collection through all reduction and analysis to the point of assigning all final values. The output from one computational process can be traced to be the input for the next computational process, and so on to the final results. All methods of reduction and analysis shall be clearly explained such that a reviewer can produce essentially identical results using the same data.
- 3.7.6 Final assigned values shall have been adjusted to satisfy all geometric and survey control constraints, i.e. the most probable values with the greatest certainty of duplication. Methodologies for data analysis of final values and their uncertainties shall be explained in sufficient detail to reasonably duplicate the results.

3.8 Procedures

- 3.8.1 A survey procedure shall be provided which provides detailed steps for the execution and control of all field and office operations, to the extent necessary to assure that the requirements and objectives of the SOW are met within any identified constraints. The procedure shall include but not be limited to the following:
 - a. Organizational responsibilities.
 - b. Provision for documenting personnel qualifications.

- c. Selection and documentation of survey control points to which surveys are accomplished.
 - d. Descriptions of methods and instructions for performing the activities in sufficient detail to facilitate 1) reasonable duplication of the results and 2) understanding of data limitations and uncertainties.
 - e. Basis of values and equations used in data reduction and analysis (e.g. reduction of observed distance to Lambert grid).
 - f. Provisions for reporting any unusual or unanticipated circumstances encountered during data collection.
 - g. Methods of recording data and documentation of activities.
 - h. Criteria for determining that the surveys have been satisfactorily accomplished.
 - i. Provision for traceability of computations to the appropriate verified computer code when applicable.
 - j. Provisions for traceability to measuring and test equipment (M & TE) calibration and proper functioning verified records.
- 3.8.2 A procedure shall be established to ensure computer programs (codes) used for this SOW produce consistent and reliable results. The procedure shall include but not be limited to the following:
- a. Organizational responsibilities.
 - b. A list of computer programs to be used in meeting the requirements of this SOW.

- c. Description of the method to assure that the model embedded in a computer code is a correct representation of the process or system modeled.
 - d. Description of the method to verify that a computer code correctly performs the mathematical operations specified in the numerical model. This is typically done by testing to provide evidence that the program can produce results in agreement with one or more other reliable outputs.
 - e. Appropriate uses, range of input variables and any limitations or warnings.
 - f. Provision for reverifying when a program is changed, including revision updates.
- 3.8.3 A procedure shall be established to control the use, calibration and proper functioning of M & TE used to meet the requirements of this SOW. The procedure shall include but not be limited to the following:
- a. Organizational responsibilities.
 - b. A description of the methods and criteria to calibrate M & TE at prescribed intervals against standards which are traceable to the NIST (e.g. EDM calibration).
 - c. A description of the methods and criteria to verify proper functioning of M & TE which do not undergo calibration (e.g. level collimation).
 - d. Unique identification and tagging of each M & TE for tracking and traceability purposes.
 - e. Provision for correcting M & TE found to be out of compliance, as well as provision for documenting and correcting, if necessary, work accomplished with M & TE found to be out of compliance.

- f. A system for immediately tagging M & TE found to be out of compliance until it has been recalibrated or its proper functioning reverified.
- g. Traceability of each M & TE to calibration and proper functioning records. Also, traceability to all work performed under this SOW.
- h. Where commercial standards provide adequate accuracy, such items (e.g. pocket tape) may be regarded as tools which do not require calibration or verification of proper functioning.
- i. A list of all types of instrumentation to be used (including such items as optical plummet tribrachs) and whether they are to undergo calibration, functional verification, or to be regarded as tools.

4.0 DOCUMENTATION TO BE SUBMITTED

- 4.1 All procedures required in 3.8 and all computer program analyses shall be submitted within two months after receipt by the USACE of the task order containing this SOW. These shall be reviewed and accepted by DOE prior to commencing work.
- 4.2 It shall be desirable to partition the total work on site into smaller and logical units of work. This will allow completion of a work unit in a logical phase (e.g. secondary control, geographical area, priority well group) before another unit of work is begun. Upon completion of a phase, copies of all documentation produced in the course of performing the work, in that phase, controlled by the procedure of 3.8.1 shall be submitted for review and acceptance. The following shall be included.
 - 4.2.1 M & TE calibration and functional verification records.
 - 4.2.2 Copies of field survey notes, sketches, computations with references to computer codes, data analysis and all documentation necessary to

duplicate the final assigned values, by following and recomputing the raw data through to final results. This material shall be page numbered chronologically and an index made for basic information groupings.

- 4.2.3 A plan view of all primary and secondary survey control points and wells and boreholes surveyed to date, shown in AutoCAD .dwg format and plotted on hard copy at a sufficient scale to show the following.
- a. Survey control point identification, indicating whether it is horizontal, vertical or both.
 - b. Well/borehole identification.
 - c. All level lines connecting control and wells/boreholes.
 - d. All horizontal survey lines connecting control and wells/boreholes.
 - e. WCS83S grid lines at an interval suitable to the plotted scale.
 - f. Label level lines and horizontal survey lines with misclosures in the same format specified in 3.4 and 3.5.
 - g. Traceability to specific survey procedure.
- 4.2.4 A list of all points in 4.2.3 in printed form and in ASCII format provided on appropriate magnetic media, containing the following.
- a. Point identifier
 - b. Northing and easting (meters) on WCS83S.
 - c. Latitude and longitude on NAD 83.
 - d. Elevation on NGVD29 in U.S. Survey Feet.

- e. Elevation on NAVD88 in meters, if available.
- f. Traceability to specific survey procedure.

5.0 CONDITIONS OF WORK

- 5.1 All work is to be performed with personnel, materials instruments and equipment supplied by the United States Army Corps of Engineers (USACE).
- 5.2 Hanford Site health, safety and security requirements shall apply to all work.

6.0 INTERFACE

The DOE-RL interface for this SOW is Mr. K. M. (Mike) Thompson, FED/641, A5-19. He shall transmit all information from DOE-RL and all documentation to DOE-RL shall be submitted to him.

7.0 ACCEPTANCE OF SERVICES

All documentation submitted to DOE-RL shall be reviewed for compliance with the requirements of this SOW prior to final acceptance.

Explanation of Access Requirements
for Wells and Boreholes

N = no special access requirement
R = radiation worker training and health physics technician (HPT) required
F = inside fenced area; gate key required
H = hazardous waste worker training required
L = limited area; numerical symbol for area required on badge
P = protected area; escort and special entrance authorization (SEA) required
S = specific training required for a facility or area
C = See comments

"0" badged individuals with the words "visitor" or "vendor" must be escorted in all DOE facilities.

"0" badged individuals such as contractors and temporaries must be escorted in all limited and protected areas.

WELL SURVEY DATA BASE

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
3-1-1	300-FF-5	-14451.0000	-22769.0000	300 Area PT	N	
3-1-10	300-FF-5	-14413.0000	-22293.0000	300 Area PT	N	
3-1-11	300-FF-5	-13635.0000	-22523.0000	300 Area PT	FR	
3-1-12	300-FF-5	-13399.0000	-22888.0000	300 Area PT	N	
3-1-13	300-FF-5	-12973.0000	-22850.0000	300 Area PT	N	
3-1-14	300-FF-5	-12955.0000	-22126.0000	300 Area PT	N	
3-1-15	300-FF-5	-13250.0000	-21520.0000	300 Area PT	N	
3-1-16A	300-FF-5	-14304.0000	-23341.0000	300 Area PT	F	
3-1-16B	300-FF-5	-14326.0000	-23350.0000	300 Area PT	F	
3-1-16C	300-FF-5	-14284.0000	-23353.0000	300 Area PT	F	
3-1-17A	300-FF-5	-13630.0000	-23331.0000	300 Area PT	N	
3-1-17B	300-FF-5	-13604.0000	-23317.0000	300 Area PT	N	
3-1-17C	300-FF-5	-13603.0000	-23346.0000	300 Area PT	N	
3-1-18A	300-FF-5	-12877.0000	-20407.0000	300 Area PT	N	
3-1-18B	300-FF-5	-12865.0000	-20420.0000	300 Area PT	N	
3-1-18C	300-FF-5	-12886.0000	-20430.0000	300 Area PT	N	
3-1-19	300-FF-5	-13543.0000	-23162.0000	300 Area PT	FR	C/OFF T 7/30/91
3-1-2	300-FF-5	-13527.0000	-23607.0000	300 Area PT	N	
3-1-5	300-FF-5	-13634.0000	-22878.0000	300 Area PT	FR	
3-1-6	300-FF-5	-13752.0000	-21738.0000	300 Area PT	N	
3-1-7	300-FF-5	-14111.0000	-23597.0000	300 Area PT	F	
3-1-8	300-FF-5	-14103.0000	-23615.0000	300 Area PT	F	
3-1-9	300-FF-5	-14091.0000	-23610.0000	300 Area PT	F	
3-2-1	300-FF-5	-14780.0000	-24308.0000	300 Area PT	N	
3-2-2	300-FF-5	-14520.0000	-23775.0000	300 Area PT	F	
3-2-3	300-FF-5	-14490.0000	-23979.0000	300 Area PT	F	
3-3-10	300-FF-5	-14972.0000	-25260.0000	300 Area PT	L	
3-3-11	300-FF-5	-14245.0000	-25376.0000		PR	NEXT TO ROAD 100'E./324 BLDG
3-3-12	300-FF-5	-13940.0000	-24869.0000	300 Area PT		
3-3-2	300-FF-5	-12991.0000	-25326.0000	300 Area PT	L	E. OF 329 BLDG.
3-3-3	300-FF-5	-13394.0000	-25327.0000		P	NOT FOUND
3-3-7	300-FF-5	-13394.0000	-24776.0000	300 Area PT	L	
3-3-9	300-FF-5	-14892.0000	-24977.0000	300 Area PT	L	
3-4-1	300-FF-5	-14118.0000	-26215.0000	300 Area PT	L	
3-4-10	300-FF-5	-15083.0000	-25840.0000	300 Area PT	L	
3-4-11	300-FF-5	-13515.0000	-25643.0000	300 Area PT	L	
3-4-12	300-FF-5	0.0000	0.0000		L	
3-4-7	300-FF-5	-15196.0000	-26377.0000	300 Area PT	L	
3-4-9	300-FF-5	-14993.0000	-25558.0000	300 Area PT	L	
3-5-1	300-FF-5	-12400.0000	-26229.0000	300 Area PT	L	
3-6-1	300-FF-5	-11681.0000	-25294.0000	300 Area PT	N	
3-8-1	300-FF-5	-12051.0000	-23577.0000	300 Area PT	N	
3-8-2	300-FF-5	-10639.0000	-23660.0000	300 Area PT	N	
3-8-3	300-FF-5	-12047.0000	-22423.0000	300 Area PT	N	
3-8-4	300-FF-5	-9557.0000	-23658.0000		N	

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
3-1-20	300-FF-1	-15708.0000	55795.0000		F	NOT LABELED
3-1-3	300-FF-1	-14091.0000	-23598.0000	300 Area PT	F	
3-1-4	300-FF-1	-13343.0000	-22390.0000	300 Area PT	N	
3-3-1	300-FF-1	-14821.0000	-24681.0000	300 Area PT	N	
3-3-6	300-FF-1	-12999.0000	-24863.0000	300 Area PT	L	
3-3-8	300-FF-1	-13802.0000	-24928.0000		L	NOT FOUND
3-4-5	300-FF-1	-13644.0000	-25877.0000		L	NOT FOUND
3-4-8	300-FF-1	-15398.0000	-27254.0000		L	NOT FOUND

3-5-2	300-FF-1	-9325.0000	-26416.0000	N
WELL	CATEGORY	EW	NS SITE	ACCESS COMMENTS
6-S27-E14	1100-EM-1	-13673.0000	-27286.0000	300 Area PT N
6-S29-E12	1100-EM-1	-12065.0000	-29392.0000	300 Area PT N
6-S30-E15A	1100-EM-1	-14838.0000	-30257.0000	300 Area PT N
6-S31-1	1100-EM-1	725.0000	-30600.0000	N
6-S31-E13	1100-EM-1	-13097.0000	-31224.0000	N
6-S32-E13A	1100-EM-1	-13166.0000	-31640.0000	N
6-S32-E13B	1100-EM-1	-12587.0000	-31653.0000	N
6-S36-E12B	1100-EM-1	-12350.0000	-36182.0000	N
6-S36-E13A	1100-EM-1	-12847.0000	-35689.0000	N
6-S36-E13B	1100-EM-1	-12845.0000	-36195.0000	N
6-S37-E14	1100-EM-1	-13980.0000	-37276.0000	1100-EM-1 N
6-S40-E14	1100-EM-1	-13927.0000	-39745.0000	1100-EM-1 N
6-S41-E13A	1100-EM-1	-12811.0000	-41004.0000	1100-EM-1 N
6-S41-E13B	1100-EM-1	-12813.0000	-40970.0000	1100-EM-1 N
6-S43-E12	1100-EM-1	-11986.0000	-43060.0000	1100-EM-1 N
11-34-13	1100-EM-1	-11597.0000	-45351.0000	N
11-41-13C	1100-EM-1	-11653.0000	-38347.0000	N
30-45-16	1100-EM-1	-14780.0000	-34269.0000	N
30-47-18B	1100-EM-1	-16080.0000	-32257.0000	N
6-S41-E11	1100-EM-1	-11010.0000	-41188.0000	1100-EM-1 N
6-S34-E10	1100-EM-1	-9835.0000	-34392.0000	1100-EM-1 N
6-S41-E12	1100-EM-1	-11538.0000	-40975.0000	1100-EM-1 N
6-S38-E12A	1100-EM-1	-12053.0000	-37863.0000	1100-EM-1 N
6-S38-E12B	1100-EM-1	-12053.0000	-37886.0000	1100-EM-1 N
6-S37-E11	1100-EM-1	-11314.0000	-37255.0000	1100-EM-1 N
6-S38-E11	1100-EM-1	-10501.0000	-38175.0000	1100-EM-1 N
6-S31-E8	1100-EM-1	-7553.0000	-31469.0000	1100-EM-1 N
6-S32-E8	1100-EM-1	-7593.0000	-31506.0000	1100-EM-1 N
6-S30-E10A	1100-EM-1	-9557.0000	-30009.0000	1100-EM-1 N
6-S30-E10B	1100-EM-1	-9583.0000	-30321.0000	1100-EM-1 N
6-S31-E10A	1100-EM-1	-9893.0000	-30550.0000	1100-EM-1 N
6-S31-E10B	1100-EM-1	-9877.0000	-30766.0000	N
6-S31-E10C	1100-EM-1	-9901.0000	-30748.0000	1100-EM-1 N
6-S31-E10D	1100-EM-1	-9902.0000	-31040.0000	1100-EM-1 N
6-S41-E13C	1100-EM-1	-12847.0000	-40986.0000	1100-EM-1 N
6-S37-E12	1100-EM-1	0.0000	0.0000	N
MW-19	1100-EM-1	0.0000	0.0000	N
MW-20	1100-EM-1	0.0000	0.0000	N
MW-21	1100-EM-1	0.0000	0.0000	N
MW-22	1100-EM-1	0.0000	0.0000	N

WELL	CATEGORY	EW	NS SITE	ACCESS COMMENTS
2-E28-26	200-BP-1	55606.0000	44446.0000 LLBG	N
2-E28-27	200-BP-1	54670.0000	44595.0000 LLBG	N
2-E28-28	200-BP-1	56056.0000	44724.0000 LLBG WMA-1	N
2-E32-2	200-BP-1	56565.0000	45904.0000 LLBG	N
2-E32-5	200-BP-1	56725.0000	45306.0000 LLBG	N
2-E33-1	200-BP-1	53335.0000	46375.0000 216-B-43	N
2-E33-3	200-BP-1	53331.0000	46547.0000 216-B-44,45,46	N
2-E33-12	200-BP-1	52850.0000	46436.0000 RR Aquifer	R
2-E33-13	200-BP-1	53093.0000	46278.0000	R
2-E33-14	200-BP-1	52177.0000	46223.0000	N
2-E33-15	200-BP-1	52751.0000	46066.0000	R
2-E33-18	200-BP-1	52825.0000	45624.0000 216-B-7A,7B	R
2-E33-24	200-BP-1	53790.0000	46260.0000 216-B-57	N
2-E33-26	200-BP-1	54315.0000	46600.0000 216-B-61	N
2-E33-28	200-BP-1	54668.0000	45596.0000 LLBG	N

2-E33-29	200-BP-1	54665.0000	45124.0000	LLBG	N
2-E33-3	200-BP-1	53331.0000	46547.0000	216-B-44,45,46	N
2-E33-30	200-BP-1	55660.0000	45903.0000	LLBG	N
2-E33-31	200-BP-1	53687.0000	45975.0000	SST B/BX/BY	N
2-E33-32	200-BP-1	53689.0000	45524.0000	SST B/BX/BY	N
2-E33-33	200-BP-1	51868.0000	45348.0000	SST B/BX/BY	N
2-E33-34	200-BP-1	55065.0000	46796.0000	LLBG WMA-1	N
2-E33-35	200-BP-1	54685.0000	46351.0000	LLBG WMA-1	N
2-E33-38	200-BP-1	0.0000	0.0000		N
2-E33-39	200-BP-1	0.0000	0.0000		N
2-E33-4	200-BP-1	53384.0000	46635.0000		N
2-E33-40	200-BP-1	0.0000	0.0000		N
2-E33-5	200-BP-1	53523.0000	46352.0000	216-B-47	N
2-E33-7	200-BP-1	53520.0000	46619.0000	216-B-48,49,50	N
2-E34-1	200-BP-1	50023.0000	45129.0000		N
2-E34-2	200-BP-1	50048.0000	45076.0000	LLBG	N
2-E34-5	200-BP-1	50014.0000	46791.0000	LLBG	N
6-47-50	200-BP-1	49508.0000	47266.0000	RR Aquifer	N
6-47-60	200-BP-1	60286.0000	47137.0000	600 Area	N
6-48-50	200-BP-1	0.0000	0.0000		N
6-49-55A	200-BP-1	54926.0000	48805.0000	600 Area	N
6-49-55B	200-BP-1	54951.0000	48803.0000	RR Aquifer	N
6-49-57	200-BP-1	56913.0000	48960.0000	600 Area	N
6-49-57B	200-BP-1	0.0000	0.0000		N
6-50-53	200-BP-1	53267.0000	49840.0000	600 Area	N
6-50-53B	200-BP-1	0.0000	0.0000		N
6-52-54	200-BP-1	0.0000	0.0000		N
6-52-57	200-BP-1	0.0000	0.0000		N
6-53-55A	200-BP-1	55014.0000	53006.0000	600 Area	N
6-53-55B	200-BP-1	55030.0000	52979.0000		N
6-53-55C	200-BP-1	55015.0000	52976.0000		N
6-54-57	200-BP-1	56639.0000	54311.0000	RR Aquifer	N
6-55-55	200-BP-1	0.0000	0.0000		N
6-55-57	200-BP-1	57208.0000	54608.0000		N

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
1-B3-1	100 AGGREGATE	79830.0000	71800.0000	100-B/C	N	
1-B4-3	100 AGGREGATE	80636.0000	69933.0000	100-B/C	N	
1-B4-4	100 AGGREGATE	80367.0000	68978.0000	100-B/C	N	
1-B5-1	100 AGGREGATE	82000.0000	69930.0000	100-B/C	N	
1-B9-1	100 AGGREGATE	79961.0000	67500.0000	100-B/C	N	
1-D2-5	100 AGGREGATE	52638.0000	90783.0000	100-D	N	
1-D5-12	100 AGGREGATE	52546.0000	92125.0000	100-D	N	
1-D8-3	100 AGGREGATE	52205.0000	94720.0000	100-D	N	LET HPT'S KNOW
1-F5-1	100 AGGREGATE	28255.0000	79531.0000	100-F	N	
1-F5-3	100 AGGREGATE	28496.0000	79588.0000	100-F	N	
1-F7-1	100 AGGREGATE	33394.0000	77199.0000	100-F	N	
1-F8-1	100 AGGREGATE	31265.0000	78536.0000	100-F	N	
1-H3-1	100	40052.0000	94994.0000	183-H	N	

	AGGREGATE					
1-H4-16	100	38946.0000	95496.0000	183-H	N	
	AGGREGATE					
1-H4-6	100	40245.0000	96473.0000	183-H	N	
	AGGREGATE					
1-K-11	100	68733.0000	76030.0000	100-K	N	
	AGGREGATE					
1-K-19	100	67000.0000	78000.0000	100-K	N	
	AGGREGATE					
1-K-20	100	66125.0000	79500.0000	100-K	N	
	AGGREGATE					
1-N-14	100	59535.0000	87834.0000	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-25	100	61706.1018	85351.1154	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-52	100	0.0000	0.0000	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-59	100	61029.1258	84251.5286	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-8S	100	60789.0000	86798.0000	100-N	RSC	100 AREA TRAIN.
	AGGREGATE					
6-101-48B	100	47787.0000	101450.0000	600 Area	N	
	AGGREGATE					
6-56-43	100	43048.0000	56261.0000	600 Area	N	
	AGGREGATE					
6-57-25A	100	25477.0000	56755.0000		N	
	AGGREGATE					
6-57-29A	100	28732.0000	57100.0000	600 Area	N	
	AGGREGATE					
6-57-83A	100	82993.0000	57020.0000		N	
	AGGREGATE					
6-58-24	100	24181.0000	58012.0000		N	
	AGGREGATE					
6-59-32	100	32378.0000	59424.0000		N	
	AGGREGATE					
6-59-58	100	57763.0000	58859.0000	600 Area	N	
	AGGREGATE					
6-59-80B	100	79548.0000	59453.0000	600 Area	N	
	AGGREGATE					
6-60-32	100	32032.0000	60390.0000		N	
	AGGREGATE					
6-60-57	100	56612.0000	60350.0000	600 Area	N	
	AGGREGATE					
6-60-60	100	59964.0000	60030.0000	600 Area	N	
	AGGREGATE					
6-61-37	100	37043.0000	60618.0000	600 Area	N	
	AGGREGATE					
6-61-41	100	41118.0000	61355.0000	600 Area	N	
	AGGREGATE					
6-61-62	100	62217.0000	60532.0000	600 Area	N	
	AGGREGATE					
6-61-66	100	65626.0000	61062.0000	600 Area	N	
	AGGREGATE					
6-62-31	100	31412.0000	62454.0000	600 Area	N	
	AGGREGATE					
6-62-43A	100	42880.0000	61938.0000		N	
	AGGREGATE					
6-63-25A	100	24806.0000	63312.0000	600 Area	N	
	AGGREGATE					

6-63-51	100 AGGREGATE	50622.0000	62557.0000	N
6-63-55	100 AGGREGATE	55061.0000	62616.0000	600 Area N
6-63-58	100 AGGREGATE	57789.0000	62691.0000	600 Area N
6-63-90	100 AGGREGATE	90264.0000	62892.0000	600 Area N
6-64-62	100 AGGREGATE	61746.0000	63786.0000	600 Area N
6-65-22	100 AGGREGATE	21528.0000	65006.0000	N
6-65-23	100 AGGREGATE	22542.0000	64883.0000	600 Area N
6-65-38	100 AGGREGATE	37991.0000	66002.0000	N
6-65-50	100 AGGREGATE	50146.0000	64699.0000	600 Area N
6-65-59A	100 AGGREGATE	58931.0000	65050.0000	600 Area N
6-65-72	100 AGGREGATE	72156.0000	64452.0000	600 Area N
6-65-83	100 AGGREGATE	82961.0000	64944.0000	600 Area N
6-66-23	100 AGGREGATE	22997.0000	65994.0000	600 Area N
6-66-38	100 AGGREGATE	38000.0000	66000.0000	600 Area N
6-66-39	100 AGGREGATE	39459.0000	66099.0000	600 Area N
6-66-58	100 AGGREGATE	57768.0000	65807.0000	600 Area N
6-66-64	100 AGGREGATE	64249.0000	66483.0000	600 Area N
6-67-51	100 AGGREGATE	51490.0000	67103.0000	600 Area N
6-67-86	100 AGGREGATE	85997.0000	66996.0000	600 Area N
6-67-98	100 AGGREGATE	98000.0000	66501.0000	600 Area N
6-68-105	100 AGGREGATE	105210.0000	68139.0000	600 Area N
6-69-38	100 AGGREGATE	38090.0000	68592.0000	600 Area N
6-69-45	100 AGGREGATE	44995.0000	69129.0000	N
6-70-23	100 AGGREGATE	23227.0000	70191.0000	N
6-70-68	100 AGGREGATE	68357.0000	70123.0000	600 Area N
6-71-30	100 AGGREGATE	30400.0000	71300.0000	600 Area N
6-71-52	100 AGGREGATE	52368.0000	71310.0000	600 Area N
6-71-77	100 AGGREGATE	76997.0000	70996.0000	600 Area N
6-72-73	100 AGGREGATE	73222.0000	72038.0000	600 Area N
6-72-88	100 AGGREGATE	87500.0000	72100.0000	600 Area N
6-72-92	100 AGGREGATE	91963.0000	71890.0000	600 Area N

6-72-98	100 AGGREGATE	98300.0000	72100.0000	N
6-73-61	100 AGGREGATE	60527.0000	73195.0000	600 Area N
6-74-44	100 AGGREGATE	44200.0000	74200.0000	600 Area N
6-74-48	100 AGGREGATE	48000.0000	74000.0000	N
6-77-36	100 AGGREGATE	36150.0000	76700.0000	600 Area N
6-77-54	100 AGGREGATE	54100.0000	76700.0000	600 Area N
6-78-62	100 AGGREGATE	62300.0000	77750.0000	1324-N/NA N
6-80-43S	100 AGGREGATE	43182.0000	79685.0000	600 Area N
6-81-38	100 AGGREGATE	38353.0000	81312.0000	N
6-81-58	100 AGGREGATE	57993.0000	81004.0000	100-N N
6-83-36	100 AGGREGATE	36000.0000	83000.0000	N
6-83-47	100 AGGREGATE	47100.0000	82850.0000	600 Area N
6-84-35A	100 AGGREGATE	34996.0000	83999.0000	N
6-85-40A	100 AGGREGATE	39846.0000	85478.0000	N
6-86-42	100 AGGREGATE	42135.0000	85693.0000	N
6-87-42A	100 AGGREGATE	42331.0000	87187.0000	N
6-87-55	100 AGGREGATE	55405.0000	86707.0000	600 Area N
6-88-41	100 AGGREGATE	41454.0000	87575.0000	N
6-89-35	100 AGGREGATE	35221.0000	88767.0000	183-H N
6-90-34	100 AGGREGATE	34273.0000	89550.0000	N
6-90-45	100 AGGREGATE	45276.0000	89626.0000	183-H N
6-91-37	100 AGGREGATE	37341.0000	90373.0000	N
6-92-49	100 AGGREGATE	48571.0000	92407.0000	N
6-96-49	100 AGGREGATE	49232.0000	96388.0000	600 Area N
6-97-43	100 AGGREGATE	43241.0000	97143.0000	183-H N
6-97-47	100 AGGREGATE	47285.0000	96735.0000	N
6-97-51A	100 AGGREGATE	50507.0000	97238.0000	600 Area N
6-99-42	100 AGGREGATE	41606.0000	98944.0000	N
1-B4-5	100 AGGREGATE	0.0000	0.0000	
1-B4-6	100 AGGREGATE	0.0000	0.0000	
1-B4-7	100 AGGREGATE	0.0000	0.0000	

1-F5-5	100 AGGREGATE	0.0000	0.0000
1-H4-2	100 AGGREGATE	0.0000	0.0000
1-D2-1	100 AGGREGATE	0.0000	0.0000
1-D2-3	100 AGGREGATE	0.0000	0.0000
1-D2-4	100 AGGREGATE	0.0000	0.0000
1-D3-1	100 AGGREGATE	0.0000	0.0000
1-D5-1	100 AGGREGATE	0.0000	0.0000
1-D5-2	100 AGGREGATE	0.0000	0.0000
1-D5-3	100 AGGREGATE	0.0000	0.0000
1-D5-4	100 AGGREGATE	0.0000	0.0000
1-D5-5	100 AGGREGATE	0.0000	0.0000
1-D5-6	100 AGGREGATE	0.0000	0.0000
1-D5-7	100 AGGREGATE	0.0000	0.0000
1-D5-8	100 AGGREGATE	0.0000	0.0000
1-D5-9	100 AGGREGATE	0.0000	0.0000
1-D5-10	100 AGGREGATE	0.0000	0.0000
1-D5-11	100 AGGREGATE	0.0000	0.0000
1-D8-1	100 AGGREGATE	0.0000	0.0000
1-D8-2	100 AGGREGATE	0.0000	0.0000
1-N-1	100 AGGREGATE	0.0000	0.0000
1-N-5	100 AGGREGATE	0.0000	0.0000
1-N-7	100 AGGREGATE	0.0000	0.0000
1-N-8P	100 AGGREGATE	0.0000	0.0000
1-N-8Q	100 AGGREGATE	0.0000	0.0000
1-N-8R	100 AGGREGATE	0.0000	0.0000
1-N-8T	100 AGGREGATE	0.0000	0.0000
1-N-8U	100 AGGREGATE	0.0000	0.0000
1-N-8V	100 AGGREGATE	0.0000	0.0000
1-N-9	100 AGGREGATE	0.0000	0.0000
1-N-10	100 AGGREGATE	0.0000	0.0000
1-N-12	100 AGGREGATE	0.0000	0.0000

1-N-30	100 AGGREGATE	0.0000	0.0000	
1-N-13P	100 AGGREGATE	0.0000	0.0000	
1-N-15	100 AGGREGATE	0.0000	0.0000	
1-N-70	100 AGGREGATE	0.0000	0.0000	
6-86-60	100 AGGREGATE	0.0000	0.0000	
1-K-1	100 AGGREGATE	0.0000	0.0000	
1-K-2	100 AGGREGATE	0.0000	0.0000	
1-K-3	100 AGGREGATE	0.0000	0.0000	
1-K-4	100 AGGREGATE	0.0000	0.0000	
1-K-5	100 AGGREGATE	0.0000	0.0000	
1-K-6	100 AGGREGATE	0.0000	0.0000	
1-K-7	100 AGGREGATE	0.0000	0.0000	
1-K-8	100 AGGREGATE	0.0000	0.0000	
1-K-9	100 AGGREGATE	0.0000	0.0000	
1-K-10	100 AGGREGATE	0.0000	0.0000	
1-K-12	100 AGGREGATE	0.0000	0.0000	
1-K-13	100 AGGREGATE	0.0000	0.0000	
1-K-15	100 AGGREGATE	0.0000	0.0000	
1-K-16	100 AGGREGATE	0.0000	0.0000	
1-K-18	100 AGGREGATE	0.0000	0.0000	
1-K-21	100 AGGREGATE	0.0000	0.0000	
1-K-23	100 AGGREGATE	0.0000	0.0000	
1-K-24	100 AGGREGATE	0.0000	0.0000	
1-K-25	100 AGGREGATE	0.0000	0.0000	
6-74-74	100 AGGREGATE	0.0000	0.0000	
6-101-48A	100 AGGREGATE	0.0000	0.0000	
6-59-33	100 AGGREGATE	0.0000	0.0000	
1-B3-2P	100 AGGREGATE	78818.0000	71752.0000	100-B/C N
1-B3-2Q	100 AGGREGATE	78818.0000	71752.0000	100-B/C N
1-B4-1	100 AGGREGATE	80650.0000	70000.0000	100-B/C N
1-B4-2	100 AGGREGATE	80672.0000	69933.0000	100-B/C N

1-F5-4	100 AGGREGATE	30650.0000	79069.0000	100-F	N
1-F5-6	100 AGGREGATE	29402.0000	80537.0000	100-F	N
1-F8-2	100 AGGREGATE	31138.0000	78661.0000	100-F	N
1-H3-2A	100 AGGREGATE	40117.0000	96019.0000	100-H	N
1-H3-2B	100 AGGREGATE	40105.0000	96042.0000	100-H	N
1-H3-2C	100 AGGREGATE	40093.0000	96019.0000	100-H	N
1-H4-10	100 AGGREGATE	39499.0000	97349.0000	100-H	N
1-H4-11	100 AGGREGATE	38420.0000	95944.0000	100-H	N
1-H4-12A	100 AGGREGATE	38854.0000	96550.0000	100-H	N
1-H4-12B	100 AGGREGATE	38870.0000	96568.0000	100-H	N
1-H4-12C	100 AGGREGATE	38845.0000	96573.0000	100-H	N
1-H4-13	100 AGGREGATE	38167.0000	95506.0000	100-H	N
1-H4-14	100 AGGREGATE	39529.0000	96025.0000	100-H	N
1-H4-15A	100 AGGREGATE	39197.0000	97012.0000	100-H	N
1-H4-15B	100 AGGREGATE	39212.0000	97032.0000	100-H	N
1-H4-15CQ	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-15CR	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-15CS	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-17	100 AGGREGATE	39608.0000	96961.0000	100-H	N
1-H4-18	100 AGGREGATE	38825.0000	96037.0000	100-H	N
1-H4-3	100 AGGREGATE	39080.0000	96373.0000	100-H	N
1-H4-4	100 AGGREGATE	38685.0000	96356.0000	100-H	N
1-H4-5	100 AGGREGATE	39065.0000	96639.0000	100-H	N
1-H4-7	100 AGGREGATE	39527.0000	96479.0000	100-H	N
1-H4-8	100 AGGREGATE	39341.0000	96580.0000	100-H	N
1-H4-9	100 AGGREGATE	39136.0000	96488.0000	100-H	N
1-K-13	100 AGGREGATE	68803.0000	76104.0000	100-K	N
1-K-18	100 AGGREGATE	0.0000	0.0000	100-K	N
1-K-22	100 AGGREGATE	65000.0000	81000.0000	100-K	N
1-K-27	100 AGGREGATE	68000.0000	76400.0000	100-K	N
1-K-28	100 AGGREGATE	68060.0000	76350.0000	100-K	N

1-K-29	100 AGGREGATE	67775.0000	76500.0000	100-K	N
1-K-30	100 AGGREGATE	67700.0000	76500.0000	100-K	N
1-N-16	100 AGGREGATE	60950.0000	85208.0000	100-N	N
1-N-17	100 AGGREGATE	60963.0000	86098.0000	100-N	N
1-N-18	100 AGGREGATE	61012.0000	86226.0000	100-N	N
1-N-19	100 AGGREGATE	61185.0000	86064.0000	100-N	N
1-N-2	100 AGGREGATE	60306.0000	86577.0000	100-N	N
1-N-20	100 AGGREGATE	61211.0000	85926.0000	100-N	N
1-N-23	100 AGGREGATE	61469.0000	85586.0000	100-N	N
1-N-26	100 AGGREGATE	61687.0000	85105.0000	100-N	N
1-N-27	100 AGGREGATE	58417.0000	85915.0000	100-N	N
1-N-28	100 AGGREGATE	58738.0000	85315.0000	100-N	N
1-N-29	100 AGGREGATE	59112.0000	85358.0000	100-N	N
1-N-3	100 AGGREGATE	60828.0000	86365.0000	100-N	C CONTROLLED ACC.
1-N-31	100 AGGREGATE	59211.0000	85993.0000	100-N	N
1-N-32	100 AGGREGATE	58893.0000	86077.0000	100-N	N
1-N-33	100 AGGREGATE	59403.0000	86148.0000	100-N	N
1-N-34	100 AGGREGATE	59452.0000	85899.0000	100-N	N
1-N-37	100 AGGREGATE	58687.0000	86476.0000	100-N	N
1-N-4	100 AGGREGATE	60042.0000	85921.0000	100-N	C CONTROLLED ACC.
1-N-40	100 AGGREGATE	58241.0000	86773.0000	100-N	N
1-N-41	100 AGGREGATE	57989.0000	86916.0000	100-N	N
1-N-42	100 AGGREGATE	57716.0000	86724.0000	100-N	N
1-N-44	100 AGGREGATE	57996.0000	86390.0000	100-N	N
1-N-49	100 AGGREGATE	58616.0000	87229.0000	100-N	N
1-N-50	100 AGGREGATE	58284.0000	88012.0000	100-N	N
1-N-51	100 AGGREGATE	59225.0000	88661.0000	100-N	N
1-N-52	100 AGGREGATE	57598.0000	85276.0000	100-N	N
1-N-54	100 AGGREGATE	60678.0000	85836.0000	100-N	N
1-N-55	100 AGGREGATE	60710.0000	85758.0000	100-N	N
1-N-56	100 AGGREGATE	60637.0000	86066.0000	100-N	N

1-N-57	100 AGGREGATE	60517.0000	85535.0000	100-N	N	
1-N-6	100 AGGREGATE	59572.0000	85925.0000	100-N	C	CONTROLLED ACC.
1-N-60	100 AGGREGATE	60969.0000	84416.0000	100-N	L	LOCKED ACCESS
1-N-62	100 AGGREGATE	60116.0000	85653.0000	100-N	N	
1-N-63	100 AGGREGATE	59805.0000	85533.0000	100-N	N	
1-N-64	100 AGGREGATE	59578.0000	85428.0000	100-N	C	CONTROLLED ACC.
1-N-65	100 AGGREGATE	59580.0000	85195.0000	100-N	C	CONTROLLED ACC.
1-N-66	100 AGGREGATE	59827.0000	84992.0000	100-N	C	CONTROLLED ACC.
1-N-67	100 AGGREGATE	60248.0000	86377.0000	100-N	C	CONTROLLED ACC.
1-N-69	100 AGGREGATE	60282.0000	86397.0000	100-N	C	CONTROLLED ACC.
1-N-70	100 AGGREGATE	58360.0000	86600.0000	100-N	N	
1-N-8P	100 AGGREGATE	60796.0000	86790.0000	100-N	S	
6-56-53	100 AGGREGATE	52779.0000	56343.0000	600 AREA	N	
6-57-29B	100 AGGREGATE	28686.0000	57108.0000	600 AREA	N	
6-57-83B	100 AGGREGATE	83178.0000	56979.0000	600 AREA	N	
6-57-83C	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-61-55B	100 AGGREGATE	55286.0000	60724.0000	600 AREA	N	
6-61-57	100 AGGREGATE	57281.0000	61410.0000	600 AREA	N	
6-63-95	100 AGGREGATE	95020.0000	63009.0000	600 AREA	N	
6-64-27	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-65-95	100 AGGREGATE	95341.0000	64788.0000	600 AREA	N	
6-66-103	100 AGGREGATE	102780.0000	65980.0000	600 AREA	N	
6-66-91	100 AGGREGATE	90879.0000	65708.0000	600 AREA	N	
6-69-450	100 AGGREGATE	44995.0000	69129.0000	600 AREA	N	
6-81-62	100 AGGREGATE	62072.0000	80813.0000	600 AREA	N	
6-82-45A	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-91-45	100 AGGREGATE	0.0000	0.0000	600 AREA	N	

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
2-W7-4	ERA	77040.0000	45435.0000	LLBG WMA-3	N	
2-W7-5	ERA	76816.0000	46509.0000	LLBG WMA-3	N	

2-W10-17	ERA	0.0000	0.0000	N	
2-W10-18	ERA	0.0000	0.0000	N	
2-W15-6	ERA	75765.0000	40005.0000	216-Z-9	N
2-W15-8	ERA	75910.0000	39740.0000	216-Z-9	R
2-W15-9	ERA	75890.0000	39930.0000	N	
2-W15-16	ERA	77387.0000	40269.0000	LLBG WMA-4	N
2-W15-22	ERA	0.0000	0.0000	N	
2-W18-2	ERA	77150.0000	39120.0000	N	
2-W18-6	ERA	76706.0000	39212.0000	N	
2-W18-7	ERA	76491.0000	39204.0000	216-Z-1A	N
2-W18-9	ERA	76846.0000	38852.0000	216-Z-18	N
2-W18-10	ERA	76803.0000	38847.0000	N	
2-W18-11	ERA	76955.0000	38735.0000	N	
2-W18-12	ERA	76955.0000	38850.0000	N	
2-W18-17	ERA	76091.0000	39256.0000	216-Z-20	N
2-W18-18	ERA	76270.0000	38903.0000	N	
2-W18-19	ERA	76403.0000	38503.0000	N	
2-W18-20	ERA	76477.0000	38103.0000	216-Z-20	N
2-W18-24	ERA	77180.0000	38998.0000	LLBG WMA-4	N
6-38-70	ERA	70226.0000	38142.0000	216-U-17	N
6-39-79	ERA	78751.0000	39198.0000	600 Area	N
6-43-88	ERA	88445.0000	43209.0000	600 Area	N
6-49-79	ERA	79122.0000	48600.0000	600 Area	N
2-W15-82	ERA	75810.0000	39860.0000	N	
	VADOSE				
2-W15-84	ERA	76000.0000	39860.0000	N	
	VADOSE				
2-W15-85	ERA	75910.0000	39970.0000	N	
	VADOSE				
2-W15-86	ERA	75958.0000	39790.0000	N	
	VADOSE				
2-W15-95	ERA	75925.0000	39930.0000	N	
	VADOSE				
2-W15-101	ERA	75860.0000	39890.0000	R	N-LOC Z9 CRIB
	VADOSE				
2-W18-65	ERA	76589.0000	39373.0000	R	
	VADOSE				
2-W18-67	ERA	76534.0000	39399.0000	R	CAVE-IN POT.
	VADOSE				
2-W18-68	ERA	76506.0000	39371.0000	R	CAVE-IN POT.
	VADOSE				
2-W18-76	ERA	76610.0000	39318.0000	R	
	VADOSE				
2-W18-77	ERA	76608.0000	39273.0000	R	
	VADOSE				
2-W18-78	ERA	76600.0000	39308.0000	R	
	VADOSE				
2-W18-79	ERA	76594.0000	39274.0000	R	
	VADOSE				
2-W18-80	ERA	76596.0000	39246.0000	R	
	VADOSE				
2-W18-81	ERA	76605.0000	39283.0000	R	
	VADOSE				
2-W18-82	ERA	77101.0000	38570.0000	N	
	VADOSE				
2-W18-85	ERA	76717.0000	38989.0000	N	
	VADOSE				
2-W18-86	ERA	76742.0000	39106.0000	N	
	VADOSE				

2-W18-87	ERA VADOSE	76604.0000	38980.0000	N
2-W18-88	ERA VADOSE	76432.0000	39298.0000	N
2-W18-89	ERA VADOSE	76752.0000	39360.0000	N
2-W18-93	ERA VADOSE	76905.0000	38744.0000	N
2-W18-94	ERA VADOSE	76880.0000	38662.0000	N
2-W18-95	ERA VADOSE	76970.0000	38665.0000	N
2-W18-96	ERA VADOSE	76790.0000	38825.0000	N
2-W18-97	ERA VADOSE	76790.0000	38745.0000	N
2-W18-98	ERA VADOSE	76880.0000	38940.0000	
2-W18-99	ERA VADOSE	76768.0000	38949.0000	N
2-W18-149	ERA VADOSE	76602.0000	39329.0000	R
2-W18-150	ERA VADOSE	76601.0000	39075.0000	R
2-W18-158	ERA VADOSE	76650.0000	39266.0000	R
2-W18-159	ERA VADOSE	76602.0000	39228.0000	R
2-W18-163	ERA VADOSE	76552.0000	39284.0000	R
2-W18-164	ERA VADOSE	76602.0000	39040.0000	R
2-W18-165	ERA VADOSE	76650.0000	39180.0000	R
2-W18-166	ERA VADOSE	76650.0000	39108.0000	R
2-W18-167	ERA VADOSE	76552.0000	39214.0000	R
2-W18-168	ERA VADOSE	76552.0000	39043.0000	R
2-W18-169	ERA VADOSE	76552.0000	39073.0000	R
2-W18-170	ERA VADOSE	76602.0000	39154.0000	R
2-W18-171	ERA VADOSE	76604.0000	39010.0000	R
2-W18-172	ERA VADOSE	76595.0000	39435.0000	R
2-W18-173	ERA VADOSE	76574.0000	39307.0000	R
2-W18-174	ERA VADOSE	76565.0000	39296.0000	R
2-W18-175	ERA VADOSE	76600.0000	39117.0000	R

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
1-B3-1	RCRA/OPERATION	79830.0000	71800.0000	100-B/C		
1-B4-1	RCRA/OPERATION	80650.0000	70000.0000	100-B/C		
1-B4-2	RCRA/OPERATION	80672.0000	69933.0000	100-B/C		
1-B4-3	RCRA/OPERATION	80636.0000	69933.0000	100-B/C		

1-B4-4	RCRA/OPERATION	80367.0000	68978.0000	100-B/C
1-B5-1	RCRA/OPERATION	82000.0000	69930.0000	100-B/C
1-B9-1	RCRA/OPERATION	79961.0000	67500.0000	100-B/C
1-D2-5	RCRA/OPERATION	52638.0000	90783.0000	100-D
1-D5-12	RCRA/OPERATION	52546.0000	92125.0000	100-D
1-D8-3	RCRA/OPERATION	52205.0000	94720.0000	100-D
1-F5-1	RCRA/OPERATION	28255.0000	79531.0000	100-F
1-F5-2	RCRA/OPERATION	28828.0000	79738.0000	100-F
1-F5-3	RCRA/OPERATION	28496.0000	79588.0000	100-F
1-F5-4	RCRA/OPERATION	30650.0000	79069.0000	100-F
1-F5-6	RCRA/OPERATION	29402.0000	80537.0000	100-F
1-F7-1	RCRA/OPERATION	33394.0000	77199.0000	100-F
1-F8-1	RCRA/OPERATION	31265.0000	78536.0000	100-F
1-F8-2	RCRA/OPERATION	31138.0000	78661.0000	100-F
1-H4-16	RCRA/OPERATION	38946.0000	95496.0000	183-H
1-H4-6	RCRA/OPERATION	40245.0000	96473.0000	183-H
1-K-11	RCRA/OPERATION	68733.0000	76030.0000	100-K
1-K-19	RCRA/OPERATION	67000.0000	78000.0000	100-K
1-K-20	RCRA/OPERATION	66125.0000	79500.0000	100-K
1-N-14	RCRA/OPERATION	59535.0000	87834.0000	100-N
1-N-16	RCRA/OPERATION	60950.0593	85207.9419	100-N
1-N-17	RCRA/OPERATION	60962.7679	86098.3690	100-N
1-N-18	RCRA/OPERATION	61011.8625	86226.1017	100-N
1-N-19	RCRA/OPERATION	61184.8674	86063.6902	100-N
1-N-24	RCRA/OPERATION	61639.8444	85459.8705	100-N
1-N-25	RCRA/OPERATION	61706.1018	85351.1154	100-N
1-N-36	RCRA/OPERATION	58709.6550	86204.4811	100-N
1-N-39	RCRA/OPERATION	58460.8558	86651.1702	100-N
1-N-53	RCRA/OPERATION	0.0000	0.0000	100-N
1-N-58	RCRA/OPERATION	60938.9539	84487.0109	100-N
1-N-59	RCRA/OPERATION	61029.1258	84251.5286	100-N
1-N-61	RCRA/OPERATION	60707.7610	84271.5590	100-N
1-N-8S	RCRA/OPERATION	60789.0000	86798.0000	100-N
2-E13-14	RCRA/OPERATION	55150.0000	36080.0000	216-B-29
2-E13-19	RCRA/OPERATION	54530.0000	34720.0000	216-B-28
2-E13-5	RCRA/OPERATION	53447.0000	35565.0000	216-B-18
2-E13-8	RCRA/OPERATION	54323.0000	35508.0000	216-B-21
2-E16-2	RCRA/OPERATION	45162.0000	39151.0000	216-A-30
2-E17-1	RCRA/OPERATION	48942.0000	39053.0000	216-A-10
2-E17-12	RCRA/OPERATION	49180.0000	38200.0000	216-A-45
2-E17-13	RCRA/OPERATION	49040.0000	38353.0000	216-A-45
2-E17-14	RCRA/OPERATION	48406.0000	38880.0000	216-A-36B
2-E17-15	RCRA/OPERATION	48400.0000	38710.0000	216-A-36B
2-E17-16	RCRA/OPERATION	48391.0000	38476.0000	216-A-36B
2-E17-17	RCRA/OPERATION	48717.0000	38474.0000	216-A-36B
2-E17-18	RCRA/OPERATION	48501.0000	38190.0000	216-A-36B
2-E17-19	RCRA/OPERATION	48810.0000	39147.0000	216-A-10
2-E17-2	RCRA/OPERATION	48141.0000	39063.0000	216-A-27
2-E17-20	RCRA/OPERATION	49070.0000	39149.0000	216-A-10
2-E17-5	RCRA/OPERATION	48560.0000	38699.0000	216-A-36B
2-E17-6	RCRA/OPERATION	48499.0000	38140.0000	216-A-36B
2-E17-9	RCRA/OPERATION	48538.0000	39027.0000	216-A-36B
2-E18-1	RCRA/OPERATION	54458.0000	38458.0000	2101-M
2-E18-2	RCRA/OPERATION	54143.0000	38756.0000	2101-M
2-E18-3	RCRA/OPERATION	54023.0000	38712.0000	2101-M
2-E18-4	RCRA/OPERATION	54024.0000	38651.0000	2101-M
2-E23-1	RCRA/OPERATION	52000.0000	41131.0000	216-A-45
2-E23-2	RCRA/OPERATION	53000.0000	40000.0000	216-A-45
2-E24-12	RCRA/OPERATION	48203.0000	39219.0000	216-A-21,
2-E24-13	RCRA/OPERATION	47875.0000	41187.0000	241-A
2-E24-16	RCRA/OPERATION	48809.0000	39310.0000	216-A-10

2-E24-17	RCRA/OPERATION	49070.0000	39309.0000	216-A-10
2-E24-18	RCRA/OPERATION	50024.0000	39331.0000	216-A-10
2-E24-19	RCRA/OPERATION	47821.0000	41076.0000	SST A/AX
2-E24-2	RCRA/OPERATION	48953.0000	39404.0000	216-A-10
2-E24-4	RCRA/OPERATION	48483.0000	41182.0000	216-A-9
2-E24-7	RCRA/OPERATION	50813.0000	39631.0000	216-A-45
2-E24-8	RCRA/OPERATION	50346.0000	41962.0000	216-C-3,4 ,5
2-E25-1	RCRA/OPERATION	47759.0000	41166.0000	241-A
2-E25-10	RCRA/OPERATION	46900.0000	42000.0000	216-A-18, 19,20
2-E25-11	RCRA/OPERATION	46126.0000	39611.0000	216-A-30
2-E25-13	RCRA/OPERATION	47670.0000	41522.0000	241-AX
2-E25-15	RCRA/OPERATION	47650.0000	41125.0000	241-A
2-E25-16	RCRA/OPERATION	47800.0000	41125.0000	241-A
2-E25-17	RCRA/OPERATION	46570.0000	40086.0000	216-A-37- 1
2-E25-18	RCRA/OPERATION	46187.0000	40070.0000	216-A-37- 1
2-E25-19	RCRA/OPERATION	46060.0000	39935.0000	216-A-37- 1
2-E25-2	RCRA/OPERATION	47190.0000	41270.0000	216-A-1,7
2-E25-20	RCRA/OPERATION	45875.0000	39925.0000	216-A-37- 1
2-E25-21	RCRA/OPERATION	45377.0000	39609.0000	216-A-37- 2
2-E25-22	RCRA/OPERATION	45589.0000	39776.0000	216-A-37- 2
2-E25-23	RCRA/OPERATION	44746.0000	39308.0000	216-A-37- 2
2-E25-24	RCRA/OPERATION	44949.0000	39484.0000	216-A-37- 2
2-E25-25	RCRA/OPERATION	43648.0000	41002.0000	Grout
2-E25-26	RCRA/OPERATION	45884.0000	40773.0000	216-A-29
2-E25-27	RCRA/OPERATION	45136.0000	39855.0000	Grout
2-E25-28	RCRA/OPERATION	45541.0000	41424.0000	216-A-29
2-E25-29P	RCRA/OPERATION	45735.0000	40170.0000	Grout
2-E25-29Q	RCRA/OPERATION	45735.0000	40170.0000	Grout
2-E25-3	RCRA/OPERATION	46960.0000	39980.0000	216-A-6
2-E25-30P	RCRA/OPERATION	44900.0000	39710.0000	Grout
2-E25-30Q	RCRA/OPERATION	44900.0000	39710.0000	Grout
2-E25-31	RCRA/OPERATION	45753.0000	40311.0000	Grout
2-E25-32P	RCRA/OPERATION	44326.0000	41200.0000	216-A-29
2-E25-32Q	RCRA/OPERATION	44326.0000	41200.0000	Grout
2-E25-33	RCRA/OPERATION	45609.0000	40116.0000	Grout
2-E25-34	RCRA/OPERATION	45517.0000	41386.0000	216-A-29
2-E25-35	RCRA/OPERATION	46539.0000	40617.0000	216-A-29
2-E25-36	RCRA/OPERATION	47541.0000	39641.0000	216-A-10
2-E25-37	RCRA/OPERATION	45749.0000	40462.0000	Grout
2-E25-38	RCRA/OPERATION	45469.0000	40056.0000	Grout
2-E25-4	RCRA/OPERATION	46739.0000	41615.0000	Grout
2-E25-40	RCRA/OPERATION	47335.0000	41760.0000	SST A/AX
2-E25-41	RCRA/OPERATION	47331.0000	41542.0000	SST A/AX
2-E25-6	RCRA/OPERATION	46619.0000	41598.0000	216-A-8
2-E25-9	RCRA/OPERATION	45860.0000	41779.0000	216-A-8
2-E26-2	RCRA/OPERATION	45664.0000	42400.0000	216-A-24
2-E26-4	RCRA/OPERATION	46449.0000	42245.0000	216-A-24
2-E26-8	RCRA/OPERATION	47142.0000	43317.0000	RR Aquifer
2-E27-10	RCRA/OPERATION	48522.0000	44520.0000	LLBG
2-E27-11	RCRA/OPERATION	49990.0000	44558.0000	LLBG
2-E27-12	RCRA/OPERATION	48678.0000	42981.0000	SST C

2-E27-13	RCRA/OPERATION	48644.0000	42672.0000	SST C
2-E27-14	RCRA/OPERATION	48144.0000	42700.0000	SST C
2-E27-15	RCRA/OPERATION	48543.0000	43135.0000	SST C
2-E27-5	RCRA/OPERATION	49881.0000	42075.0000	216-C-10
2-E27-7	RCRA/OPERATION	48132.0000	43097.6000	241-C
2-E27-8	RCRA/OPERATION	49642.0000	44496.0000	LLBG
2-E27-9	RCRA/OPERATION	49122.0000	44484.0000	LLBG
2-E28-12	RCRA/OPERATION	54885.0000	42490.0000	216-B-55
2-E28-13	RCRA/OPERATION	55145.0000	42675.0000	216-B-55
2-E28-16	RCRA/OPERATION	54975.0000	42927.0000	216-B-12
2-E28-17	RCRA/OPERATION	53807.0000	42169.0000	216-B-6,1 OB
2-E28-18	RCRA/OPERATION	55105.0000	43603.0000	216-B-62
2-E28-19	RCRA/OPERATION	55205.0000	43324.0000	216-B-12
2-E28-21	RCRA/OPERATION	55290.0000	43806.0000	216-B-62
2-E28-23	RCRA/OPERATION	52852.0000	43477.0000	216-B-5
2-E28-24	RCRA/OPERATION	52841.0000	43466.0000	216-B-5
2-E28-25	RCRA/OPERATION	52869.0000	43494.0000	216-B-5
2-E28-7	RCRA/OPERATION	52812.0000	43437.0000	216-B-5
2-E28-9	RCRA/OPERATION	55101.0000	43044.0000	216-B-12
2-E32-3	RCRA/OPERATION	56721.0000	45631.0000	LLBG
2-E32-4	RCRA/OPERATION	56713.0000	44985.0000	216-B-3
2-E32-5	RCRA/OPERATION	56725.0000	45306.0000	LLBG
2-E33-19	RCRA/OPERATION	52629.0000	45744.0000	241-B
2-E33-20	RCRA/OPERATION	52629.0000	45664.0000	216-B-7,1 1
2-E33-21	RCRA/OPERATION	53855.1000	45324.4000	216-B-36
2-E33-27	RCRA/OPERATION	53220.0000	45470.0000	241-BX
2-E33-8	RCRA/OPERATION	53850.9000	45832.4000	216-B-41
2-E33-9	RCRA/OPERATION	53285.0000	45960.0000	241-BY
2-E34-3	RCRA/OPERATION	48488.0000	45337.0000	LLBG
2-E34-4	RCRA/OPERATION	49419.0000	46791.0000	LLBG
2-E34-6	RCRA/OPERATION	50609.0000	46784.0000	LLBG
2-E34-7	RCRA/OPERATION	47949.3000	45519.7000	LLBG
2-E35-1	RCRA/OPERATION	47339.4000	45869.8000	LLBG
2-W10-1	RCRA/OPERATION	76210.0000	43550.0000	216-T-5
2-W10-10	RCRA/OPERATION	75920.0000	43783.0000	SST T
2-W10-11	RCRA/OPERATION	75908.0000	43771.0000	SST T
2-W10-12	RCRA/OPERATION	75906.0000	43755.0000	SST T
2-W10-13	RCRA/OPERATION	78297.0000	43137.0000	LLBG WMA-3
2-W10-14	RCRA/OPERATION	78330.0000	43143.0000	LLBG WMA-3
2-W10-15	RCRA/OPERATION	75858.0000	43791.0000	SST T
2-W10-16	RCRA/OPERATION	75825.0000	43130.0000	SST T
2-W10-3	RCRA/OPERATION	75980.0000	43348.0000	216-T-32
2-W10-4	RCRA/OPERATION	75977.0000	43033.0000	216-T-36
2-W10-8	RCRA/OPERATION	75600.0000	43799.0000	241-T
2-W10-9	RCRA/OPERATION	75930.0000	43760.0000	241-T
2-W11-11	RCRA/OPERATION	75274.0000	42632.0000	216-T-18
2-W11-14	RCRA/OPERATION	73000.0000	44000.0000	216-T-33
2-W11-15	RCRA/OPERATION	74200.0000	44849.0000	216-T-34
2-W11-18	RCRA/OPERATION	74505.0000	44950.0000	216-T-35
2-W11-23	RCRA/OPERATION	75416.0000	43766.0000	241-T
2-W11-24	RCRA/OPERATION	75416.0000	43716.0000	241-T
2-W11-7	RCRA/OPERATION	74251.0000	43350.0000	216-T-3
2-W14-10	RCRA/OPERATION	71905.0000	40810.0000	216-W-LWC
2-W14-2	RCRA/OPERATION	75330.0000	42255.0000	216-T-26, 27,28
2-W14-5	RCRA/OPERATION	75440.0000	41160.0000	241-TX
2-W14-6	RCRA/OPERATION	75440.0000	41360.0000	241-TX
2-W15-10	RCRA/OPERATION	76920.0000	41080.0000	216-Z-16

2-W15-11	RCRA/OPERATION	77040.0000	41145.0000	216-Z-16
2-W15-15	RCRA/OPERATION	78103.0000	40330.0000	LLBG WMA-4
2-W15-17	RCRA/OPERATION	77387.0000	40221.0000	LLBG WMA-4
2-W15-18	RCRA/OPERATION	77383.0000	39705.0000	LLBG WMA-4
2-W15-19	RCRA/OPERATION	77772.0000	41041.0000	LLBG WMA-4
2-W15-20	RCRA/OPERATION	78120.0000	41028.0000	LLBG WMA-4
2-W15-23	RCRA/OPERATION	78118.7000	40679.6000	LLBG WMA-4
2-W15-24	RCRA/OPERATION	78096.0000	39851.0000	LLBG WMA-4
2-W15-3	RCRA/OPERATION	75996.0000	42355.0000	241-TY
2-W15-4	RCRA/OPERATION	75700.0000	41200.0000	216-T-19
2-W15-7	RCRA/OPERATION	76180.0000	40880.0000	216-Z-7
2-W18-15	RCRA/OPERATION	77152.0000	36990.0000	216-U-10
2-W18-21	RCRA/OPERATION	78080.0000	37794.0000	LLBG WMA-4
2-W18-22	RCRA/OPERATION	78109.0000	37831.0000	LLBG WMA-4
2-W18-23	RCRA/OPERATION	78120.0000	38987.0000	LLBG WMA-4
2-W18-24	RCRA/OPERATION	77180.0000	38998.0000	LLBG WMA-4
2-W18-26	RCRA/OPERATION	78097.0000	39477.0000	LLBG WMA-4
2-W18-5	RCRA/OPERATION	77250.0000	39350.0000	216-Z-12
2-W18-7	RCRA/OPERATION	76491.0000	39204.0000	216-Z-1A
2-W18-9	RCRA/OPERATION	76846.0000	38852.0000	216-Z-18
2-W19-11	RCRA/OPERATION	74210.0000	37860.0000	216-U-1,2
2-W19-12	RCRA/OPERATION	75456.0000	38052.0000	241-U
2-W19-13	RCRA/OPERATION	74180.0000	37510.0000	216-U-16
2-W19-14	RCRA/OPERATION	74240.0000	37300.0000	216-U-16
2-W19-15	RCRA/OPERATION	74285.0000	37775.0000	216-U-1,2
2-W19-16	RCRA/OPERATION	74230.0000	37950.0000	216-U-1,2
2-W19-18	RCRA/OPERATION	73936.0000	37895.0000	216-U-1,2
2-W19-19	RCRA/OPERATION	72406.0000	37569.0000	216-U-17
2-W19-2	RCRA/OPERATION	73000.0000	36849.0000	216-U-8
2-W19-20	RCRA/OPERATION	72252.0000	37525.0000	216-U-17
2-W19-21	RCRA/OPERATION	75273.0000	37462.0000	216-U-14
2-W19-23	RCRA/OPERATION	72587.0000	37499.0000	216-U-17
2-W19-24	RCRA/OPERATION	72588.0000	37613.0000	216-U-17
2-W19-25	RCRA/OPERATION	72250.0000	37575.0000	216-U-17
2-W19-26	RCRA/OPERATION	72345.0000	37504.0000	216-U-17
2-W19-27	RCRA/OPERATION	75072.0000	37629.0000	216-U-14
2-W19-28	RCRA/OPERATION	73183.8000	37822.7000	216-U-17
2-W19-29	RCRA/OPERATION	72940.3000	37849.3000	216-U-17
2-W19-3	RCRA/OPERATION	74098.0000	37819.0000	216-U-1,2
2-W19-5	RCRA/OPERATION	74685.0000	36850.0000	216-S-23
2-W19-9	RCRA/OPERATION	74225.0000	37895.0000	216-U-1,2
2-W22-1	RCRA/OPERATION	75208.0000	35455.0000	216-S-1,2
2-W22-10	RCRA/OPERATION	75115.0000	35314.0000	216-S-1,2
2-W22-12	RCRA/OPERATION	74499.0000	35180.0000	216-S-7
2-W22-18	RCRA/OPERATION	75094.0000	35429.0000	216-S-8
2-W22-19	RCRA/OPERATION	73099.0000	34508.0000	216-S-20
2-W22-2	RCRA/OPERATION	75221.0000	35429.0000	216-S-1,2
2-W22-20	RCRA/OPERATION	73182.0000	34175.0000	216-S-20
2-W22-21	RCRA/OPERATION	74600.0000	34600.0000	216-S-13
2-W22-22	RCRA/OPERATION	73098.0000	36094.0000	216-U-12

2-W22-26	RCRA/OPERATION	74450.0000	36100.0000	216-S-9
2-W23-1	RCRA/OPERATION	75615.0000	35970.0000	216-S-3
2-W23-10	RCRA/OPERATION	76535.0000	35420.0000	216-S-25
2-W23-11	RCRA/OPERATION	76725.0000	35560.0000	216-U-10
2-W23-2	RCRA/OPERATION	75604.0000	35425.0000	241-SX
2-W23-3	RCRA/OPERATION	75614.0000	35110.0000	241-SX
2-W23-4	RCRA/OPERATION	76335.0000	35861.0000	216-S-21
2-W23-7	RCRA/OPERATION	75550.0000	35700.0000	241-SX
2-W23-9	RCRA/OPERATION	76300.0000	35480.0000	216-S-25
2-W26-3	RCRA/OPERATION	77269.0000	33006.0000	216-S-6
2-W26-6	RCRA/OPERATION	76895.0000	32635.0000	216-S-5
2-W27-1	RCRA/OPERATION	73242.0000	33752.0000	216-S-26
2-W6-2	RCRA/OPERATION	75302.0000	45571.0000	LLBG WMA-3
2-W7-1	RCRA/OPERATION	78601.0000	46551.0000	LLBG WMA-3
2-W7-10	RCRA/OPERATION	75564.0000	45921.1000	LLBG WMA-3
2-W7-2	RCRA/OPERATION	77385.0000	46519.0000	LLBG WMA-3
2-W7-3	RCRA/OPERATION	77420.0000	46520.0000	LLBG WMA-3
2-W7-6	RCRA/OPERATION	76219.0000	46509.0000	LLBG WMA-3
2-W7-7	RCRA/OPERATION	76519.0000	46509.0000	LLBG WMA-3
2-W7-8	RCRA/OPERATION	75880.0000	46510.0000	LLBG WMA-3
2-W7-9	RCRA/OPERATION	78888.9000	46549.3000	LLBG WMA-3
2-W8-1	RCRA/OPERATION	79200.0000	46551.0000	LLBG WMA-3
2-W9-1	RCRA/OPERATION	79507.0000	44508.0000	LLBG WMA-3
6-20-20	RCRA/OPERATION	20390.0000	20389.0000	NRDW
6-20-39	RCRA/OPERATION	39078.0000	20472.0000	NRDW
6-23-34	RCRA/OPERATION	34191.0000	23161.0000	SWL
6-24-33	RCRA/OPERATION	33315.0000	23809.0000	SWL
6-24-34A	RCRA/OPERATION	34071.0000	23544.0000	SWL
6-24-34B	RCRA/OPERATION	33967.0000	23879.0000	SWL
6-24-34C	RCRA/OPERATION	33853.0000	24257.0000	SWL
6-24-35	RCRA/OPERATION	35203.0000	24351.0000	SWL
6-25-33A	RCRA/OPERATION	33445.0000	25364.0000	NRDW
6-25-34A	RCRA/OPERATION	33501.0000	25384.0000	NRDW
6-25-34B	RCRA/OPERATION	33552.0000	25222.0000	NRDW
6-25-34C	RCRA/OPERATION	33700.0000	24752.0000	SWL
6-26-33	RCRA/OPERATION	33452.0000	25546.0000	NRDW
6-26-34	RCRA/OPERATION	34483.0000	26163.0000	NRDW
6-26-35A	RCRA/OPERATION	34749.0000	25769.0000	NRDW
6-26-35C	RCRA/OPERATION	34689.0000	25751.0000	NRDW
6-28-40	RCRA/OPERATION	40297.0000	27696.0000	NRDW
6-31-31	RCRA/OPERATION	30678.0000	30507.0000	NRDW
6-32-72	RCRA/OPERATION	72039.0000	32477.0000	216-S-19
6-34-39A	RCRA/OPERATION	38996.0000	34094.0000	NRDW
6-35-78A	RCRA/OPERATION	78190.0000	35478.0000	216-U-10
6-39-39	RCRA/OPERATION	38851.0000	39044.0000	216-B-3
6-40-33A	RCRA/OPERATION	33426.0000	40404.0000	216-B-3
6-40-39	RCRA/OPERATION	39224.0000	39878.0000	216-B-3
6-41-40	RCRA/OPERATION	40285.0000	41030.0000	216-B-3
6-42-40A	RCRA/OPERATION	40205.0000	42420.0000	216-B-3
6-42-40C	RCRA/OPERATION	40181.0000	42414.0000	RR Aquifer

6-42-42B	RCRA/OPERATION	42301.0000	42473.0000	216-B-3
6-43-41E	RCRA/OPERATION	40723.0000	42995.0000	216-B-3
6-43-41F	RCRA/OPERATION	40721.0000	42945.0000	216-B-3
6-43-42J	RCRA/OPERATION	42274.0000	42532.0000	216-B-3
6-43-43	RCRA/OPERATION	43184.0000	42942.0000	216-B-3
6-43-45	RCRA/OPERATION	44644.0000	42977.0000	216-B-3
6-44-42	RCRA/OPERATION	41965.0000	43783.0000	216-B-3
6-44-43B	RCRA/OPERATION	43363.0000	43997.0000	216-B-3
6-45-42	RCRA/OPERATION	42099.0000	45274.0000	216-B-3
6-47-35B	RCRA/OPERATION	34694.0000	46917.0000	216-B-3
6-50-45	RCRA/OPERATION	44992.0000	50150.0000	RR Aquifer
6-50-48B	RCRA/OPERATION	47588.0000	49980.0000	RR Aquifer
6-51-46	RCRA/OPERATION	46414.0000	50915.0000	RR Aquifer
6-52-46A	RCRA/OPERATION	45706.0000	52196.0000	RR Aquifer
6-52-48	RCRA/OPERATION	48076.0000	51556.0000	RR Aquifer
6-53-47B	RCRA/OPERATION	47468.0000	52505.0000	216-A-25
6-53-48B	RCRA/OPERATION	47729.0000	52868.0000	216-A-25
6-53-50	RCRA/OPERATION	50196.0000	53219.0000	RR Aquifer
6-54-48	RCRA/OPERATION	47656.0000	53607.0000	216-A-25
6-54-49	RCRA/OPERATION	49100.0000	53800.0000	216-A-25
6-55-50C	RCRA/OPERATION	49940.0000	55000.0000	216-A-25

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
1-E3-2Q	PNL Site Wide	78818.0000	71752.0000	100-B/C		
2-E17-8	PNL Site Wide	49247.0000	39123.0000	216-A-10		
2-E18-1	PNL Site Wide	54458.0000	38458.0000	2101-M		
2-E18-1	PNL Site Wide	54458.0000	38458.0000	216-B-3		
2-E24-1	PNL Site Wide	48761.0000	39396.0000	216-A-5		
2-E24-3	PNL Site Wide	48310.0000	41011.0000	216-A-9		
2-E26-6	PNL Site Wide	47350.0000	42370.0000			
2-E28-5	PNL Site Wide	52024.0000	43887.0000			
2-E32-1	PNL Site Wide	56684.0000	46488.0000			
2-E33-10	PNL Site Wide	54566.0000	45216.0000			
2-W10-4	PNL Site Wide	75977.0000	43033.0000	216-T-36		
2-W10-5	PNL Site Wide	76489.0000	42669.0000			
2-W11-3	PNL Site Wide	73001.0000	43310.0000			
2-W11-9	PNL Site Wide	72542.0000	43319.0000			
2-W12-1	PNL Site Wide	70733.0000	45083.0000			
2-W15-12	PNL Site Wide	76095.0000	42350.0000			
2-W15-2	PNL Site Wide	78082.0000	42251.0000			
2-W18-3	PNL Site Wide	77700.0000	39600.0000			
2-W18-4	PNL Site Wide	77375.0000	39150.0000			
2-W19-1	PNL Site Wide	75491.0000	37613.0000	216-U-14		
2-W22-9	PNL Site Wide	72710.0000	35200.0000			
3-3-4B	PNL Site Wide	-13194.0000	-24787.0000			
4-S0-7	PNL Site Wide	7470.0000	-180.0000	400 Area		
4-S0-8	PNL Site Wide	7970.0000	-180.0000	400 Area		
4-S1-7B	PNL Site Wide	7458.0000	-1008.0000	400 Area		
4-S1-7C	PNL Site Wide	7460.0000	-760.0000	400 Area		
4-S1-8A	PNL Site Wide	7820.0000	-1258.0000	400 Area		
4-S1-8B	PNL Site Wide	7573.0000	-1108.0000	400 Area		
4-S1-8C	PNL Site Wide	7605.0000	-1440.0000	400 Area		
6-1-18	PNL Site Wide	17699.0000	1452.0000	600 Area		
6-10-54A	PNL Site Wide	53550.0000	10150.0000	600 Area		
6-10-E12	PNL Site Wide	-12000.0000	10000.0000	600 Area		

6-101-48B	PNL	Site Wide	47787.0000	101450.0000	600	Area
6-13-64	PNL	Site Wide	63975.0000	12596.0000	600	Area
6-14-38	PNL	Site Wide	37978.0000	14210.0000	600	Area
6-14-47	PNL	Site Wide	47317.0000	13628.0000	600	Area
6-14-E6T	PNL	Site Wide	-5500.0000	13869.0000	600	Area
6-15-15B	PNL	Site Wide	14991.0000	14831.0000	600	Area
6-15-26	PNL	Site Wide	26370.0000	15602.0000	600	Area
6-17-5	PNL	Site Wide	4500.0000	17450.0000	600	Area
6-19-43	PNL	Site Wide	43150.0000	18825.0000	600	Area
6-19-58	PNL	Site Wide	58260.0000	18953.0000	600	Area
6-19-88	PNL	Site Wide	87736.0000	19185.0000	600	Area
6-2-3	PNL	Site Wide	3325.0000	1900.0000	600	Area
6-2-33A	PNL	Site Wide	32823.0000	1813.0000	600	Area
6-2-7	PNL	Site Wide	6824.0000	1529.0000	400	Area
						Pond
6-20-82	PNL	Site Wide	82345.0000	19847.0000	600	Area
6-20-E5A	PNL	Site Wide	0.0000	0.0000	600	Area
6-20-E5P	PNL	Site Wide	-4755.0000	20008.0000	600	Area
6-20-E5Q	PNL	Site Wide	-4750.0000	20040.0000	600	Area
6-20-E5R	PNL	Site Wide	-4766.0000	20070.0000	600	Area
6-21-6	PNL	Site Wide	6320.0000	21085.0000	600	Area
6-22-70	PNL	Site Wide	69259.0000	19810.0000	600	Area
6-24-1P	PNL	Site Wide	1355.0000	23576.0000	600	Area
6-24-1Q	PNL	Site Wide	1356.0000	23620.0000	600	Area
6-24-1R	PNL	Site Wide	1359.0000	23693.0000	600	Area
6-24-1S	PNL	Site Wide	1360.0000	23731.0000	600	Area
6-24-1T	PNL	Site Wide	1357.0000	23654.0000	600	Area
6-24-46	PNL	Site Wide	45994.0000	23968.0000	600	Area
6-25-55	PNL	Site Wide	55192.0000	25357.0000	600	Area
6-25-70	PNL	Site Wide	70084.0000	25284.0000	600	Area
6-26-15A	PNL	Site Wide	14554.0000	25665.0000	600	Area
6-27-8	PNL	Site Wide	8281.0000	27027.0000	600	Area
6-28-40P	PNL	Site Wide	40297.0000	27696.0000	600	Area
6-29-4	PNL	Site Wide	3943.0000	28670.0000	600	Area
6-29-78	PNL	Site Wide	77727.0000	29379.0000	600	Area
6-3-45	PNL	Site Wide	45007.0000	3007.0000	600	Area
6-31-31P	PNL	Site Wide	30678.0000	30507.0000	600	Area
6-31-53B	PNL	Site Wide	52964.0000	31160.0000	600	Area
6-32-22	PNL	Site Wide	21995.0000	32003.0000	600	Area
6-32-43	PNL	Site Wide	42649.0000	32128.0000	600	Area
6-32-62	PNL	Site Wide	61980.0000	31974.0000	600	Area
6-32-70B	PNL	Site Wide	70338.0000	32077.0000	600	Area
6-32-77	PNL	Site Wide	77032.0000	31812.0000	600	Area
6-33-42	PNL	Site Wide	42256.0000	32794.0000	600	Area
6-33-56	PNL	Site Wide	56000.0000	33000.0000	600	Area
6-34-41B	PNL	Site Wide	41209.0000	34200.0000	600	Area
6-34-42	PNL	Site Wide	41778.0000	33554.0000	600	Area
6-34-51	PNL	Site Wide	51282.0000	33873.0000	600	Area
6-35-66	PNL	Site Wide	65758.0000	34860.0000	600	Area
6-35-70	PNL	Site Wide	69988.0000	34523.0000	600	Area
6-35-9	PNL	Site Wide	9175.0000	34700.0000	600	Area
6-36-46P	PNL	Site Wide	45612.0000	36195.0000	600	Area
6-36-46S	PNL	Site Wide	45599.0000	36313.0000	600	Area
6-36-61A	PNL	Site Wide	60704.0000	36365.0000	600	Area
6-36-61B	PNL	Site Wide	60685.0000	36463.0000	600	Area
6-37-43	PNL	Site Wide	42874.0000	37063.0000	600	Area
6-37-82A	PNL	Site Wide	81988.0000	37018.0000	600	Area
6-37-E4	PNL	Site Wide	-3609.0000	36993.0000	600	Area
6-38-15	PNL	Site Wide	14505.0000	37544.0000	600	Area
6-38-65	PNL	Site Wide	64978.0000	37965.0000	600	Area
6-39-0	PNL	Site Wide	68.0000	39058.0000	600	Area
6-40-1	PNL	Site Wide	570.0000	39849.0000	600	Area

6-40-62	PNL	Site Wide	61500.0000	40300.0000	600	Area
6-41-1	PNL	Site Wide	1161.0000	40836.0000	600	Area
6-41-23	PNL	Site Wide	22876.0000	40692.0000	600	Area
6-42-12A	PNL	Site Wide	11725.0000	42474.0000	600	Area
6-42-2	PNL	Site Wide	1910.0000	42075.0000	600	Area
6-42-40B	PNL	Site Wide	40205.0000	42420.0000	216-B-3	
6-43-3	PNL	Site Wide	2745.0000	43285.0000	600	Area
6-43-42	PNL	Site Wide	41817.0000	43116.0000	600	Area
6-44-4	PNL	Site Wide	3562.0000	44434.0000	600	Area
6-44-64	PNL	Site Wide	63751.0000	44053.0000	600	Area
6-45-2	PNL	Site Wide	2224.0000	44926.0000	600	Area
6-45-69A	PNL	Site Wide	69428.0000	45003.0000	600	Area
6-46-21B	PNL	Site Wide	20629.0000	46093.0000	600	Area
6-46-4	PNL	Site Wide	4494.0000	45663.0000	600	Area
6-47-35A	PNL	Site Wide	34703.0000	46875.0000	600	Area
6-47-46A	PNL	Site Wide	45994.0000	47039.0000	600	Area
6-47-5	PNL	Site Wide	5419.0000	46975.0000	600	Area
6-47-60	PNL	Site Wide	60286.0000	47137.0000	600	Area
6-48-18	PNL	Site Wide	17870.0000	47903.0000	600	Area
6-48-7	PNL	Site Wide	6547.0000	48470.0000	600	Area
6-48-71	PNL	Site Wide	70660.0000	47838.0000	600	Area
6-49-100C	PNL	Site Wide	100330.0000	49419.0000	Yakima	
					Gate	
6-49-13E	PNL	Site Wide	12614.0000	48805.0000	600	Area
6-49-28	PNL	Site Wide	28100.0000	49288.0000	600	Area
6-49-55A	PNL	Site Wide	54926.0000	48805.0000	600	Area
6-49-57	PNL	Site Wide	56913.0000	48960.0000	600	Area
6-50-30	PNL	Site Wide	29833.0000	50299.0000	600	Area
6-50-42	PNL	Site Wide	41909.0000	50206.0000	600	Area
6-50-53	PNL	Site Wide	53267.0000	49840.0000	600	Area
6-50-85	PNL	Site Wide	84503.0000	49919.0000	600	Area
6-51-63	PNL	Site Wide	63060.0000	51449.0000	600	Area
6-51-75	PNL	Site Wide	75151.0000	50667.0000	600	Area
6-52-19	PNL	Site Wide	18624.0000	51880.0000	600	Area
6-53-103	PNL	Site Wide	103420.0000	52737.0000	600	Area
6-53-47A	PNL	Site Wide	47463.0000	52518.0000	600	Area
6-53-48A	PNL	Site Wide	47721.0000	52862.0000	600	Area
6-53-55A	PNL	Site Wide	55014.0000	53006.0000	600	Area
6-54-34	PNL	Site Wide	34075.0000	54185.0000	600	Area
6-54-45A	PNL	Site Wide	44506.0000	54203.0000	600	Area
6-55-40	PNL	Site Wide	40435.0000	55331.0000	600	Area
6-55-44	PNL	Site Wide	43677.0000	55462.0000	600	Area
6-55-50D	PNL	Site Wide	50150.0000	55017.0000	600	Area
6-55-70	PNL	Site Wide	69955.0000	55326.0000	600	Area
6-55-76	PNL	Site Wide	75897.0000	55001.0000	600	Area
6-55-89	PNL	Site Wide	88592.0000	54969.0000	600	Area
6-64-27	PNL	Site Wide	0.0000	0.0000	600	Area
6-66-103	PNL	Site Wide	102780.0000	65980.0000	600	Area
6-8-17	PNL	Site Wide	17125.0000	8200.0000	600	Area
6-8-25	PNL	Site Wide	25003.0000	7995.0000	600	Area
6-8-32	PNL	Site Wide	31800.0000	7875.0000	600	Area
6-80-43P	PNL	Site Wide	43176.0000	79538.0000	600	Area
6-80-43Q	PNL	Site Wide	43178.0000	79588.0000	600	Area
6-80-43R	PNL	Site Wide	43180.0000	79638.0000	600	Area
6-84-35AO	PNL	Site Wide	34996.0000	83999.0000	600	Area
6-S11-E12A	PNL	Site Wide	-11949.0000	-11009.0000	600	Area
6-S12-29	PNL	Site Wide	29467.0000	-11694.0000	600	Area
6-S12-3	PNL	Site Wide	2700.0000	-12325.0000	600	Area
6-S14-20A	PNL	Site Wide	19739.0000	-14491.0000	600	Area
6-S19-11	PNL	Site Wide	11013.0000	-18738.0000	600	Area
6-S19-E13	PNL	Site Wide	-12780.0000	-19434.0000	300	Area

PT

6-S28-E0	PNL Site Wide	-189.0000	-28072.0000	Patrol Academy
6-S3-25	PNL Site Wide	24501.0000	-2996.0000	600 Area
6-S3-E12	PNL Site Wide	-12000.0000	-3000.0000	600 Area
6-S31-1P	PNL Site Wide	725.0000	-30600.0000	600 Area
6-S6-E14A	PNL Site Wide	-14211.0000	-6435.0000	600 Area
6-S6-E4B	PNL Site Wide	-3982.0000	-6098.0000	600 Area
6-S6-E4D	PNL Site Wide	-3767.0000	-5734.0000	600 Area
6-S7-34	PNL Site Wide	34449.0000	-6528.0000	600 Area
6-S8-19	PNL Site Wide	18720.0000	-8336.0000	600 Area

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
2-E13-51	VADOSE	54200.0000	35500.0000		
2-E13-52	VADOSE	55200.0000	35700.0000		
2-E13-54	VADOSE	54460.0000	35445.0000		
2-E13-55	VADOSE	54495.0000	35320.0000		
2-E13-56	VADOSE	54495.0000	35120.0000		
2-E13-57	VADOSE	54495.0000	34920.0000		
2-E13-58	VADOSE	51550.0000	35747.0000		
2-E13-59	VADOSE	55150.0000	35617.0000		
2-E13-60	VADOSE	55150.0000	35453.0000		
2-E13-61	VADOSE	54720.0000	35995.0000		
2-E17-50	VADOSE	48500.0000	39000.0000		
2-E17-51	VADOSE	48510.0000	38540.0000		
2-E17-53	VADOSE	49065.0000	38266.0000		
2-E17-54	VADOSE	49246.0000	38354.0000		
2-E22-51	VADOSE	0.0000	0.0000		
2-E22-52	VADOSE	0.0000	0.0000		
2-E22-53	VADOSE	0.0000	0.0000		
2-E22-54	VADOSE	0.0000	0.0000		
2-E22-55	VADOSE	0.0000	0.0000		
2-E22-56	VADOSE	0.0000	0.0000		
2-E24-100	VADOSE	49425.0000	39158.0000		
2-E24-101	VADOSE	49425.0000	39151.0000		
2-E24-102	VADOSE	49425.0000	39145.0000		
2-E24-103	VADOSE	49425.0000	39138.0000		
2-E24-104	VADOSE	49420.0000	39156.0000		
2-E24-105	VADOSE	49416.0000	39152.0000		
2-E24-106	VADOSE	49411.0000	39147.0000		
2-E24-107	VADOSE	49406.0000	39142.0000		
2-E24-108	VADOSE	49425.0000	39218.0000		
2-E24-109	VADOSE	49425.0000	39211.0000		
2-E24-110	VADOSE	49425.0000	39205.0000		
2-E24-111	VADOSE	0.0000	0.0000		
2-E24-112	VADOSE	49407.0000	39104.0000		
2-E24-113	VADOSE	49481.0000	39172.0000		
2-E24-121	VADOSE	49121.0000	39159.0000		
2-E24-122	VADOSE	49437.0000	39164.0000		
2-E24-123	VADOSE	49432.0000	39163.0000		
2-E24-124A	VADOSE	0.0000	0.0000		
2-E24-124B	VADOSE	0.0000	0.0000		
2-E24-124C	VADOSE	0.0000	0.0000		
2-E24-124D	VADOSE	0.0000	0.0000		
2-E24-124E	VADOSE	0.0000	0.0000		
2-E24-124F	VADOSE	0.0000	0.0000		
2-E24-124G	VADOSE	0.0000	0.0000		
2-E24-124H	VADOSE	0.0000	0.0000		
2-E24-124I	VADOSE	0.0000	0.0000		
2-E24-124J	VADOSE	0.0000	0.0000		
2-E24-155	VADOSE	48225.0000	41930.0000		
2-E24-156	VADOSE	48265.0000	41865.0000		

2-E24-157	VADOSE	48160.0000	41975.0000
2-E24-158	VADOSE	48125.0000	41875.0000
2-E24-159	VADOSE	47805.0000	41950.0000
2-E24-160	VADOSE	48910.0000	39320.0000
2-E24-51	VADOSE	48750.0000	39850.0000
2-E24-52	VADOSE	48050.0000	39850.0000
2-E24-53	VADOSE	48245.0000	39515.0000
2-E24-54	VADOSE	48130.0000	39542.0000
2-E24-55	VADOSE	48676.0000	39631.0000
2-E24-56	VADOSE	48704.0000	39350.0000
2-E24-57	VADOSE	48704.0000	39447.0000
2-E24-58	VADOSE	48666.0000	39397.0000
2-E24-59	VADOSE	48913.0000	39215.0000
2-E24-60	VADOSE	48984.0000	39216.0000
2-E24-63	VADOSE	48644.0000	41335.0000
2-E24-64	VADOSE	47819.0000	41155.0000
2-E24-65	VADOSE	47819.0000	41170.0000
2-E24-66	VADOSE	47819.0000	41262.0000
2-E24-67	VADOSE	47849.0000	41287.0000
2-E24-68	VADOSE	47848.0000	41328.0000
2-E24-69	VADOSE	47815.0000	41355.0000
2-E24-70	VADOSE	47809.0000	41157.0000
2-E24-71	VADOSE	47845.0000	41178.0000
2-E24-72	VADOSE	47850.0000	41224.0000
2-E24-73	VADOSE	47822.0000	41250.0000
2-E24-74	VADOSE	0.0000	0.0000
2-E24-76	VADOSE	49422.0000	39161.0000
2-E24-77	VADOSE	49415.0000	39161.0000
2-E24-78	VADOSE	49409.0000	39161.0000
2-E24-79	VADOSE	49402.0000	39161.0000
2-E24-80	VADOSE	49420.0000	39156.0000
2-E24-81	VADOSE	49416.0000	39152.0000
2-E24-82	VADOSE	49411.0000	39147.0000
2-E24-83	VADOSE	49406.0000	39179.0000
2-E24-84	VADOSE	49425.0000	39164.0000
2-E24-85	VADOSE	49425.0000	39171.0000
2-E24-86	VADOSE	49425.0000	39177.0000
2-E24-87	VADOSE	49420.0000	39180.0000
2-E24-88	VADOSE	49430.0000	39166.0000
2-E24-89	VADOSE	49434.0000	39170.0000
2-E24-90	VADOSE	49437.0000	39175.0000
2-E24-91	VADOSE	49444.0000	39180.0000
2-E24-92	VADOSE	49428.0000	39161.0000
2-E24-93	VADOSE	49436.0000	39161.0000
2-E24-94	VADOSE	49441.0000	39161.0000
2-E24-95	VADOSE	49448.0000	39161.0000
2-E24-96	VADOSE	49430.0000	39165.0000
2-E24-97	VADOSE	49434.0000	39170.0000
2-E24-98	VADOSE	49439.0000	39175.0000
2-E24-99	VADOSE	49444.0000	39142.0000
2-E25-100	VADOSE	47429.0000	41753.0000
2-E25-101	VADOSE	47429.0000	41710.0000
2-E25-102	VADOSE	47458.0000	41682.0000
2-E25-103	VADOSE	47500.0000	41692.0000
2-E25-104	VADOSE	47520.0000	41726.0000
2-E25-105	VADOSE	47495.0000	41773.0000
2-E25-106	VADOSE	47429.0000	41648.0000
2-E25-107	VADOSE	47428.0000	41600.0000
2-E25-108	VADOSE	47455.0000	41585.0000
2-E25-109	VADOSE	47495.0000	41585.0000
2-E25-110	VADOSE	47520.0000	41595.0000
2-E25-111	VADOSE	47519.0000	41644.0000

2-E25-112	VADOSE	47499.0000	41669.0000
2-E25-113	VADOSE	47532.0000	41764.0000
2-E25-114	VADOSE	47540.0000	41691.0000
2-E25-115	VADOSE	47589.0000	41691.0000
2-E25-116	VADOSE	47610.0000	41720.0000
2-E25-117	VADOSE	47602.0000	41761.0000
2-E25-118	VADOSE	47569.0000	41776.0000
2-E25-119	VADOSE	47547.0000	41672.0000
2-E25-120	VADOSE	47544.0000	41583.0000
2-E25-121	VADOSE	47586.0000	41588.0000
2-E25-122	VADOSE	47604.0000	41605.0000
2-E25-123	VADOSE	47612.0000	41650.0000
2-E25-124	VADOSE	47581.0000	41672.0000
2-E25-125	VADOSE	47508.0000	41670.0000
2-E25-128	VADOSE	47485.0000	41675.0000
2-E25-132	VADOSE	0.0000	0.0000
2-E25-146	VADOSE	47360.0000	40605.0000
2-E25-147	VADOSE	47588.0000	41591.0000
2-E25-148	VADOSE	47769.0000	41185.0000
2-E25-149	VADOSE	47776.0000	41177.0000
2-E25-152	VADOSE	47765.0000	41195.0000
2-E25-153	VADOSE	46912.0000	40671.0000
2-E25-154	VADOSE	47000.0000	40664.0000
2-E25-155	VADOSE	47151.0000	40670.0000
2-E25-156	VADOSE	47062.0000	40654.0000
2-E25-157	VADOSE	47030.0000	40593.0000
2-E25-158	VADOSE	47058.0000	40557.0000
2-E25-159	VADOSE	46994.0000	40512.0000
2-E25-160	VADOSE	46918.0000	40485.0000
2-E25-161	VADOSE	46932.0000	40456.0000
2-E25-162	VADOSE	46843.0000	40452.0000
2-E25-163	VADOSE	46893.0000	40385.0000
2-E25-164	VADOSE	46846.0000	40317.0000
2-E25-165	VADOSE	46803.0000	40249.0000
2-E25-166	VADOSE	46868.0000	40175.0000
2-E25-167	VADOSE	46979.0000	40145.0000
2-E25-168	VADOSE	47057.0000	40093.0000
2-E25-169	VADOSE	45550.0000	41675.0000
2-E25-170	VADOSE	65000.0000	41640.0000
2-E25-171	VADOSE	47777.0000	41178.0000
2-E25-172	VADOSE	47777.0000	41183.0000
2-E25-173	VADOSE	47650.0000	41655.0000
2-E25-174	VADOSE	47650.0000	41605.0000
2-E25-179	VADOSE	47650.0000	41480.0000
2-E25-181	VADOSE	77040.0000	41685.0000
2-E25-182	VADOSE	47689.0000	41687.0000
2-E25-183	VADOSE	47687.0000	41696.0000
2-E25-184	VADOSE	47800.0000	41085.0000
2-E25-185	VADOSE	47650.0000	41676.0000
2-E25-189	VADOSE	47800.0000	41085.0000
2-E25-190	VADOSE	45775.0000	39700.0000
2-E25-191	VADOSE	45800.0000	39560.0000
2-E25-192	VADOSE	47772.0000	41179.0000
2-E25-193	VADOSE	45532.0000	39430.0000
2-E25-194	VADOSE	46940.0000	40680.0000
2-E25-195	VADOSE	46880.0000	40680.0000
2-E25-196	VADOSE	46820.0000	40680.0000
2-E25-197	VADOSE	46760.0000	40680.0000
2-E25-198	VADOSE	46700.0000	40680.0000
2-E25-199	VADOSE	46940.0000	40690.0000
2-E25-202	VADOSE	46760.0000	40690.0000
2-E25-203	VADOSE	46700.0000	40670.0000

2-E25-204	VADOSE	47768.0000	41187.0000
2-E25-205	VADOSE	46680.0000	41490.0000
2-E25-206	VADOSE	46200.0000	41580.0000
2-E25-207	VADOSE	45925.0000	41630.0000
2-E25-208	VADOSE	46050.0000	41100.0000
2-E25-209	VADOSE	46600.0000	40800.0000
2-E25-210	VADOSE	46180.0000	40540.0000
2-E25-211	VADOSE	45000.0000	41075.0000
2-E25-212	VADOSE	45340.0000	41160.0000
2-E25-213	VADOSE	45370.0000	41540.0000
2-E25-214	VADOSE	44990.0000	41660.0000
2-E25-215	VADOSE	45000.0000	40750.0000
2-E25-216	VADOSE	45700.0000	40500.0000
2-E25-217	VADOSE	46460.0000	40340.0000
2-E25-218	VADOSE	45350.0000	39840.0000
2-E25-219	VADOSE	45000.0000	39780.0000
2-E25-220	VADOSE	44300.0000	40650.0000
2-E25-221	VADOSE	44500.0000	39400.0000
2-E25-228	VADOSE	0.0000	0.0000
2-E25-229	VADOSE	0.0000	0.0000
2-E25-230	VADOSE	0.0000	0.0000
2-E25-231	VADOSE	0.0000	0.0000
2-E25-232	VADOSE	0.0000	0.0000
2-E25-233	VADOSE	0.0000	0.0000
2-E25-234	VADOSE	0.0000	0.0000
2-E25-235	VADOSE	45185.0000	40054.0000
2-E25-51	VADOSE	47505.0000	41357.0000
2-E25-52	VADOSE	48000.0000	39600.0000
2-E25-53	VADOSE	47000.0000	39795.0000
2-E25-54	VADOSE	47169.0000	41205.0000
2-E25-55	VADOSE	47651.0000	41223.0000
2-E25-56	VADOSE	47753.0000	41283.0000
2-E25-57	VADOSE	47565.0000	41397.0000
2-E25-58	VADOSE	47540.0000	41160.0000
2-E25-59	VADOSE	0.0000	0.0000
2-E25-60	VADOSE	0.0000	0.0000
2-E25-61	VADOSE	47774.0000	41345.0000
2-E25-62	VADOSE	47753.0000	41304.0000
2-E25-63	VADOSE	47768.0000	41275.0000
2-E25-64	VADOSE	0.0000	0.0000
2-E25-65	VADOSE	0.0000	0.0000
2-E25-66	VADOSE	47737.0000	41340.0000
2-E25-67	VADOSE	47697.0000	41355.0000
2-E25-68	VADOSE	47663.0000	41335.0000
2-E25-69	VADOSE	47651.0000	41304.0000
2-E25-70	VADOSE	47679.0000	41264.0000
2-E25-71	VADOSE	47721.0000	41263.0000
2-E25-72	VADOSE	47637.0000	41338.0000
2-E25-73	VADOSE	47598.0000	41356.0000
2-E25-74	VADOSE	47562.0000	41337.0000
2-E25-75	VADOSE	47552.0000	41296.0000
2-E25-76	VADOSE	47577.0000	41264.0000
2-E25-77	VADOSE	47623.0000	41264.0000
2-E25-78	VADOSE	47583.0000	41250.0000
2-E25-79	VADOSE	47553.0000	41234.0000
2-E25-80	VADOSE	47558.0000	41180.0000
2-E25-81	VADOSE	47591.0000	41158.0000
2-E25-82	VADOSE	47632.0000	41168.0000
2-E25-83	VADOSE	47652.0000	41201.0000
2-E25-84	VADOSE	47635.0000	41250.0000
2-E25-85	VADOSE	47674.0000	41166.0000
2-E25-86	VADOSE	47714.0000	41158.0000

2-E25-87	VADOSE	47748.0000	41184.0000
2-E25-88	VADOSE	47746.0000	41226.0000
2-E25-89	VADOSE	47720.0000	41250.0000
2-E25-90	VADOSE	47670.0000	41240.0000
2-E25-91	VADOSE	47757.0000	41213.0000
2-E25-92	VADOSE	47770.0000	41172.0000
2-E25-93	VADOSE	0.0000	0.0000
2-E25-94	VADOSE	0.0000	0.0000
2-E25-95	VADOSE	0.0000	0.0000
2-E25-96	VADOSE	0.0000	0.0000
2-E25-97	VADOSE	47781.0000	41247.0000
2-E25-98	VADOSE	47749.0000	41274.0000
2-E25-99	VADOSE	47453.0000	41776.0000
2-E26-51	VADOSE	46890.0000	42203.0000
2-E26-52	VADOSE	46843.0000	42280.0000
2-E26-53	VADOSE	46605.0000	42325.0000
2-E26-54	VADOSE	46449.0000	42355.0000
2-E26-55	VADOSE	46216.0000	42403.0000
2-E26-56	VADOSE	46815.0000	42143.0000
2-E26-57	VADOSE	46578.0000	42188.0000
2-E26-58	VADOSE	46423.0000	42221.0000
2-E26-59	VADOSE	46188.0000	42266.0000
2-E26-60	VADOSE	46831.0000	42217.0000
2-E26-61	VADOSE	46418.0000	42493.0000
2-E26-62	VADOSE	46047.0000	42369.0000
2-E26-63	VADOSE	45653.0000	42447.0000
2-E26-64	VADOSE	46570.0000	42142.0000
2-E26-65	VADOSE	46859.0000	42349.0000
2-E26-66	VADOSE	46614.0000	42367.0000
2-E26-67	VADOSE	46457.0000	42391.0000
2-E26-68	VADOSE	46644.0000	42525.0000
2-E26-69	VADOSE	46475.0000	42488.0000
2-E26-70	VADOSE	46622.0000	42405.0000
2-E26-71	VADOSE	46599.0000	42287.0000
2-E26-72	VADOSE	46052.0000	42394.0000
2-E26-73	VADOSE	45657.0000	42481.0000
2-E26-74	VADOSE	46593.0000	42264.0000
2-E26-75	VADOSE	46631.0000	42455.0000
2-E26-76	VADOSE	46715.0000	42290.0000
2-E27-100	VADOSE	48349.0000	43045.0000
2-E27-101	VADOSE	48528.0000	42979.0000
2-E27-102	VADOSE	48494.0000	42945.0000
2-E27-103	VADOSE	48585.0000	42926.0000
2-E27-104	VADOSE	48570.0000	42967.0000
2-E27-105	VADOSE	48438.0000	42964.0000
2-E27-106	VADOSE	48495.0000	43043.0000
2-E27-107	VADOSE	48380.0000	43120.0000
2-E27-108	VADOSE	48352.0000	43088.0000
2-E27-109	VADOSE	48446.0000	43074.0000
2-E27-115	VADOSE	48378.0000	42829.0000
2-E27-116	VADOSE	48365.0000	42817.0000
2-E27-117	VADOSE	48367.0000	42838.0000
2-E27-118	VADOSE	48353.0000	42826.0000
2-E27-119	VADOSE	48353.0000	42814.0000
2-E27-120	VADOSE	0.0000	0.0000
2-E27-121	VADOSE	0.0000	0.0000
2-E27-122	VADOSE	0.0000	0.0000
2-E27-123	VADOSE	0.0000	0.0000
2-E27-124	VADOSE	0.0000	0.0000
2-E27-125	VADOSE	48387.0000	43116.0000
2-E27-126	VADOSE	50687.0000	42182.0000
2-E27-127	VADOSE	50687.0000	42132.0000

2-E27-128	VADOSE	50687.0000	42181.0000
2-E27-129	VADOSE	50727.0000	42092.0000
2-E27-130	VADOSE	50724.0000	42132.0000
2-E27-131	VADOSE	50767.0000	42086.0000
2-E27-132	VADOSE	50767.0000	42177.0000
2-E27-133	VADOSE	50220.0000	42080.0000
2-E27-135	VADOSE	48342.0000	42965.0000
2-E27-137	VADOSE	50590.0000	43160.0000
2-E27-138	VADOSE	50100.0000	42810.0000
2-E27-139	VADOSE	51300.0000	44300.0000
2-E27-140	VADOSE	50550.0000	42270.0000
2-E27-141	VADOSE	49850.0000	44190.0000
2-E27-142	VADOSE	48265.0000	42195.0000
2-E27-143	VADOSE	48172.0000	42190.0000
2-E27-144	VADOSE	48225.0000	42118.0000
2-E27-145	VADOSE	48060.0000	42125.0000
2-E27-146	VADOSE	47965.0000	42030.0000
2-E27-147	VADOSE	47820.0000	42159.0000
2-E27-148	VADOSE	0.0000	0.0000
2-E27-149	VADOSE	49706.0000	44515.0000
2-E27-150	VADOSE	49824.0000	44631.0000
2-E27-151	VADOSE	49780.0000	44527.0000
2-E27-152	VADOSE	0.0000	0.0000
2-E27-153	VADOSE	0.0000	0.0000
2-E27-154	VADOSE	49045.0000	44238.0000
2-E27-51	VADOSE	48345.0000	42932.0000
2-E27-52	VADOSE	48322.0000	43096.0000
2-E27-53	VADOSE	48549.0000	43029.0000
2-E27-54	VADOSE	48149.0000	42771.0000
2-E27-55	VADOSE	48370.0000	42677.0000
2-E27-56	VADOSE	48191.0000	42954.0000
2-E27-57	VADOSE	48583.0000	42889.0000
2-E27-58	VADOSE	48373.0000	42719.0000
2-E27-59	VADOSE	48328.0000	42676.0000
2-E27-60	VADOSE	48295.0000	42747.0000
2-E27-61	VADOSE	48339.0000	42762.0000
2-E27-62	VADOSE	48514.0000	43002.0000
2-E27-63	VADOSE	48441.0000	43036.0000
2-E27-64	VADOSE	48469.0000	42957.0000
2-E27-65	VADOSE	48405.0000	42835.0000
2-E27-66	VADOSE	48437.0000	42759.0000
2-E27-67	VADOSE	48365.0000	42827.0000
2-E27-68	VADOSE	48366.0000	42893.0000
2-E27-69	VADOSE	48294.0000	42825.0000
2-E27-70	VADOSE	48290.0000	42893.0000
2-E27-71	VADOSE	48291.0000	42963.0000
2-E27-72	VADOSE	48244.0000	42967.0000
2-E27-73	VADOSE	48288.0000	42897.0000
2-E27-74	VADOSE	48168.0000	42901.0000
2-E27-75	VADOSE	48140.0000	42861.0000
2-E27-76	VADOSE	48165.0000	42820.0000
2-E27-77	VADOSE	48215.0000	42825.0000
2-E27-78	VADOSE	48231.0000	42861.0000
2-E27-79	VADOSE	48352.0000	42790.0000
2-E27-80	VADOSE	48377.0000	42748.0000
2-E27-81	VADOSE	48282.0000	42861.0000
2-E27-82	VADOSE	48328.0000	42813.0000
2-E27-83	VADOSE	48375.0000	42861.0000
2-E27-84	VADOSE	48209.0000	42933.0000
2-E27-85	VADOSE	48302.0000	42932.0000
2-E27-86	VADOSE	48260.0000	42976.0000
2-E27-87	VADOSE	48448.0000	42911.0000

2-E27-88	VADOSE	48419.0000	42883.0000
2-E27-89	VADOSE	48447.0000	42823.0000
2-E27-90	VADOSE	48485.0000	42815.0000
2-E27-91	VADOSE	48512.0000	42842.0000
2-E27-92	VADOSE	48515.0000	42879.0000
2-E27-93	VADOSE	48489.0000	42898.0000
2-E27-94	VADOSE	48363.0000	42965.0000
2-E27-95	VADOSE	48398.0000	42978.0000
2-E27-96	VADOSE	48313.0000	43047.0000
2-E27-97	VADOSE	48284.0000	43023.0000
2-E27-98	VADOSE	48327.0000	42956.0000
2-E27-99	VADOSE	48385.0000	43026.0000
2-E28-51	VADOSE	53883.0000	42403.0000
2-E28-52	VADOSE	53600.0000	42300.0000
2-E28-53	VADOSE	52593.0000	43732.0000
2-E28-54	VADOSE	52643.0000	43732.0000
2-E28-55	VADOSE	52643.0000	43782.0000
2-E28-56	VADOSE	52578.0000	43862.0000
2-E28-57	VADOSE	52660.0000	43862.0000
2-E28-58	VADOSE	52575.0000	43916.0000
2-E28-59	VADOSE	52660.0000	43916.0000
2-E28-60	VADOSE	52618.0000	43977.0000
2-E28-61	VADOSE	52593.0000	43782.0000
2-E28-62	VADOSE	52635.0000	43837.0000
2-E28-63	VADOSE	55000.0000	43000.0000
2-E28-64	VADOSE	55000.0000	43000.0000
2-E28-65	VADOSE	55000.0000	43060.0000
2-E28-66	VADOSE	55000.0000	43120.0000
2-E28-67	VADOSE	52635.0000	43916.0000
2-E28-68	VADOSE	52600.0000	43887.0000
2-E28-69	VADOSE	55050.0000	43000.0000
2-E28-70	VADOSE	55050.0000	43050.0000
2-E28-71	VADOSE	55050.0000	43100.0000
2-E28-73	VADOSE	52890.0000	43415.0000
2-E28-74	VADOSE	52890.0000	43385.0000
2-E28-75	VADOSE	55000.0000	43600.0000
2-E28-76	VADOSE	54965.0000	43088.0000
2-E28-77	VADOSE	53300.0000	42720.0000
2-E28-78	VADOSE	53290.0000	42750.0000
2-E28-84	VADOSE	55031.0000	43602.0000
2-E28-85	VADOSE	55102.0000	48672.0000
2-E28-86	VADOSE	55340.0000	43929.0000
2-E28-87	VADOSE	55269.0000	43858.0000
2-E28-88	VADOSE	55198.0000	43788.0000
2-E28-89	VADOSE	55128.0000	43717.0000
2-E28-90	VADOSE	55072.0000	43608.0000
2-E28-91	VADOSE	55312.0000	43888.0000
2-E28-93	VADOSE	0.0000	0.0000
2-E33-100	VADOSE	53526.0000	46138.0000
2-E33-101	VADOSE	53225.0000	46038.0000
2-E33-102	VADOSE	53291.0000	46005.0000
2-E33-103	VADOSE	53225.0000	46064.0000
2-E33-104	VADOSE	53225.0000	46140.0000
2-E33-105	VADOSE	53291.0000	46102.0000
2-E33-106	VADOSE	53327.0000	45936.0000
2-E33-107	VADOSE	53326.0000	45859.0000
2-E33-108	VADOSE	53392.0000	45907.0000
2-E33-109	VADOSE	53327.0000	46038.0000
2-E33-110	VADOSE	53327.0000	45962.0000
2-E33-111	VADOSE	53393.0000	46000.0000
2-E33-112	VADOSE	53327.0000	46140.0000
2-E33-113	VADOSE	53327.0000	46064.0000

2-E33-114	VADOSE	53392.0000	46102.0000
2-E33-115	VADOSE	53429.0000	45936.0000
2-E33-116	VADOSE	53429.0000	45860.0000
2-E33-117	VADOSE	53495.0000	45898.0000
2-E33-118	VADOSE	53429.0000	46038.0000
2-E33-119	VADOSE	53429.0000	45962.0000
2-E33-120	VADOSE	53495.0000	46008.0000
2-E33-121	VADOSE	53491.0000	46088.0000
2-E33-122	VADOSE	53424.0000	46069.0000
2-E33-123	VADOSE	53446.0000	46144.0000
2-E33-124	VADOSE	53531.0000	45860.0000
2-E33-125	VADOSE	53590.0000	45922.0000
2-E33-126	VADOSE	53531.0000	46040.0000
2-E33-127	VADOSE	53542.0000	45957.0000
2-E33-128	VADOSE	53595.0000	46013.0000
2-E33-129	VADOSE	53220.0000	45530.0000
2-E33-130	VADOSE	53272.0000	45463.0000
2-E33-131	VADOSE	53272.0000	45537.0000
2-E33-132	VADOSE	53183.0000	45524.0000
2-E33-133	VADOSE	53160.0000	45490.0000
2-E33-134	VADOSE	53160.0000	45450.0000
2-E33-135	VADOSE	53185.0000	45410.0000
2-E33-136	VADOSE	53220.0000	45490.0000
2-E33-137	VADOSE	53240.0000	45470.0000
2-E33-138	VADOSE	53120.0000	45510.0000
2-E33-139	VADOSE	53120.0000	45470.0000
2-E33-140	VADOSE	53140.0000	45411.0000
2-E33-141	VADOSE	53120.0000	45550.0000
2-E33-142	VADOSE	53160.0000	45570.0000
2-E33-143	VADOSE	53240.0000	45450.0000
2-E33-144	VADOSE	53220.0000	45430.0000
2-E33-145	VADOSE	53208.0000	45500.0000
2-E33-146	VADOSE	53195.0000	45470.0000
2-E33-147	VADOSE	52770.0000	45280.0000
2-E33-148	VADOSE	52795.0000	45220.0000
2-E33-149	VADOSE	52734.0000	45195.0000
2-E33-150	VADOSE	53454.0000	45549.0000
2-E33-151	VADOSE	53454.0000	45456.0000
2-E33-152	VADOSE	53484.0000	45478.0000
2-E33-153	VADOSE	53503.0000	45616.0000
2-E33-154	VADOSE	53528.0000	45562.0000
2-E33-155	VADOSE	53581.0000	45569.0000
2-E33-156	VADOSE	53581.0000	45631.0000
2-E33-157	VADOSE	53346.0000	45547.0000
2-E33-158	VADOSE	53319.0000	45531.0000
2-E33-159	VADOSE	53304.0000	45500.0000
2-E33-160	VADOSE	53319.0000	45469.0000
2-E33-161	VADOSE	53346.0000	45453.0000
2-E33-162	VADOSE	53386.0000	45522.0000
2-E33-163	VADOSE	53346.0000	45644.0000
2-E33-164	VADOSE	53319.0000	45631.0000
2-E33-165	VADOSE	53319.0000	45569.0000
2-E33-166	VADOSE	53386.0000	45622.0000
2-E33-167	VADOSE	53519.0000	45432.0000
2-E33-168	VADOSE	53519.0000	45369.0000
2-E33-169	VADOSE	53581.0000	45369.0000
2-E33-170	VADOSE	53581.0000	45431.0000
2-E33-171	VADOSE	53519.0000	45469.0000
2-E33-172	VADOSE	53572.0000	45461.0000
2-E33-173	VADOSE	53512.0000	45478.0000
2-E33-174	VADOSE	53588.0000	45522.0000
2-E33-175	VADOSE	53581.0000	45532.0000

2-E33-176	VADOSE	53218.0000	45929.0000
2-E33-177	VADOSE	53225.0000	45860.0000
2-E33-178	VADOSE	53278.0000	45867.0000
2-E33-179	VADOSE	52508.0000	45337.0000
2-E33-180	VADOSE	52543.0000	45296.0000
2-E33-181	VADOSE	52575.0000	45300.0000
2-E33-182	VADOSE	52598.0000	45337.0000
2-E33-183	VADOSE	52573.0000	45378.0000
2-E33-184	VADOSE	52521.0000	45469.0000
2-E33-185	VADOSE	52507.0000	45430.0000
2-E33-186	VADOSE	52557.0000	45392.0000
2-E33-187	VADOSE	52596.0000	45430.0000
2-E33-188	VADOSE	52571.0000	45478.0000
2-E33-189	VADOSE	52621.0000	45469.0000
2-E33-190	VADOSE	52609.0000	45429.0000
2-E33-191	VADOSE	52648.0000	45393.0000
2-E33-192	VADOSE	52663.0000	45491.0000
2-E33-193	VADOSE	52707.0000	45330.0000
2-E33-194	VADOSE	52737.0000	45296.0000
2-E33-195	VADOSE	52784.0000	45306.0000
2-E33-196	VADOSE	52798.0000	45338.0000
2-E33-197	VADOSE	52719.0000	45467.0000
2-E33-198	VADOSE	52748.0000	45394.0000
2-E33-199	VADOSE	52800.0000	45438.0000
2-E33-200	VADOSE	52775.0000	45472.0000
2-E33-201	VADOSE	52821.0000	45469.0000
2-E33-202	VADOSE	52848.0000	45398.0000
2-E33-203	VADOSE	52884.0000	45401.0000
2-E33-204	VADOSE	52884.0000	45469.0000
2-E33-206	VADOSE	53412.0000	45920.0000
2-E33-207	VADOSE	53449.0000	45954.0000
2-E33-208	VADOSE	53411.0000	46022.0000
2-E33-209	VADOSE	53447.0000	46049.0000
2-E33-210	VADOSE	53244.0000	46056.0000
2-E33-211	VADOSE	53207.0000	46081.0000
2-E33-212	VADOSE	52715.0000	45257.0000
2-E33-213	VADOSE	52815.0000	45257.0000
2-E33-214	VADOSE	52855.0000	45280.0000
2-E33-215	VADOSE	52895.0000	45238.0000
2-E33-216	VADOSE	52877.0000	45200.0000
2-E33-217	VADOSE	52901.0000	45337.0000
2-E33-218	VADOSE	52655.0000	45290.0000
2-E33-219	VADOSE	52608.0000	45237.0000
2-E33-220	VADOSE	52502.0000	45237.0000
2-E33-221	VADOSE	52652.0000	45187.0000
2-E33-222	VADOSE	53450.0000	45355.0000
2-E33-223	VADOSE	53503.0000	45401.0000
2-E33-224	VADOSE	53350.0000	45350.0000
2-E33-225	VADOSE	53404.0000	45398.0000
2-E33-226	VADOSE	53303.0000	45398.0000
2-E33-227	VADOSE	53203.0000	46015.0000
2-E33-228	VADOSE	53204.0000	45605.0000
2-E33-229	VADOSE	53230.0000	45558.0000
2-E33-230	VADOSE	0.0000	0.0000
2-E33-231	VADOSE	53452.0000	45645.0000
2-E33-232	VADOSE	53552.0000	45645.0000
2-E33-233	VADOSE	53413.0000	45580.0000
2-E33-234	VADOSE	53404.0000	45482.0000
2-E33-235	VADOSE	53425.0000	45459.0000
2-E33-236	VADOSE	53485.0000	45532.0000
2-E33-237	VADOSE	53502.0000	45500.0000
2-E33-238	VADOSE	53252.0000	45646.0000

2-E33-239	VADOSE	53204.0000	45600.0000
2-E33-240	VADOSE	53200.0000	46072.0000
2-E33-241	VADOSE	53202.0000	46038.0000
2-E33-242	VADOSE	53265.0000	46055.0000
2-E33-243	VADOSE	53289.0000	46130.0000
2-E33-244	VADOSE	53282.0000	46070.0000
2-E33-245	VADOSE	53202.0000	45900.0000
2-E33-246	VADOSE	53292.0000	45911.0000
2-E33-247	VADOSE	0.0000	0.0000
2-E33-248	VADOSE	53379.0000	45865.0000
2-E33-249	VADOSE	53365.0000	45940.0000
2-E33-250	VADOSE	53375.0000	46140.0000
2-E33-251	VADOSE	53481.0000	45860.0000
2-E33-252	VADOSE	53497.0000	45932.0000
2-E33-253	VADOSE	53477.0000	46137.0000
2-E33-254	VADOSE	53577.0000	45860.0000
2-E33-255	VADOSE	53604.0000	45888.0000
2-E33-256	VADOSE	53585.0000	45970.0000
2-E33-257	VADOSE	53417.0000	45633.0000
2-E33-258	VADOSE	53486.0000	45572.0000
2-E33-259	VADOSE	53412.0000	46128.0000
2-E33-260	VADOSE	53466.0000	46060.0000
2-E33-261	VADOSE	52520.0000	45270.0000
2-E33-262	VADOSE	52521.0000	45195.0000
2-E33-263	VADOSE	52582.0000	45195.0000
2-E33-264	VADOSE	52582.0000	45270.0000
2-E33-273	VADOSE	52855.0000	45277.0000
2-E33-274	VADOSE	53276.0000	45559.0000
2-E33-277	VADOSE	53310.0000	45370.0000
2-E33-286	VADOSE	54017.0000	45257.0000
2-E33-287	VADOSE	53980.0000	45383.0000
2-E33-288	VADOSE	53980.0000	45428.0000
2-E33-289	VADOSE	53980.0000	45479.0000
2-E33-290	VADOSE	53980.0000	45520.0000
2-E33-291	VADOSE	0.0000	0.0000
2-E33-292	VADOSE	0.0000	0.0000
2-E33-293	VADOSE	0.0000	0.0000
2-E33-294	VADOSE	0.0000	0.0000
2-E33-295	VADOSE	0.0000	0.0000
2-E33-51	VADOSE	52488.0000	45374.0000
2-E33-52	VADOSE	52552.0000	45176.0000
2-E33-53	VADOSE	52615.0000	45508.0000
2-E33-54	VADOSE	52716.0000	45375.0000
2-E33-55	VADOSE	52815.0000	45508.0000
2-E33-56	VADOSE	52853.0000	45177.0000
2-E33-57	VADOSE	52928.0000	45300.0000
2-E33-58	VADOSE	52761.0000	45633.0000
2-E33-59	VADOSE	52794.0000	45633.0000
2-E33-60	VADOSE	52777.0000	45606.0000
2-E33-61	VADOSE	53145.0000	45537.0000
2-E33-62	VADOSE	53250.0000	45339.0000
2-E33-63	VADOSE	53312.0000	45670.0000
2-E33-64	VADOSE	53412.0000	45537.0000
2-E33-65	VADOSE	53512.0000	45670.0000
2-E33-66	VADOSE	52883.0000	45885.0000
2-E33-67	VADOSE	52857.0000	45875.0000
2-E33-68	VADOSE	52845.0000	45897.0000
2-E33-69	VADOSE	52833.0000	45855.0000
2-E33-70	VADOSE	52865.0000	45873.0000
2-E33-71	VADOSE	52847.0000	45905.0000
2-E33-72	VADOSE	52819.0000	45795.0000
2-E33-73	VADOSE	52815.0000	45993.0000

2-E33-74	VADOSE	52747.0000	46011.0000
2-E33-75	VADOSE	52798.0000	45709.0000
2-E33-76	VADOSE	52681.0000	46155.0000
2-E33-77	VADOSE	53550.0000	45339.0000
2-E33-78	VADOSE	53625.0000	45462.0000
2-E33-79	VADOSE	52795.0000	45943.0000
2-E33-80	VADOSE	52773.0000	46624.0000
2-E33-81	VADOSE	52709.0000	46078.0000
2-E33-82	VADOSE	52710.0000	46118.0000
2-E33-83	VADOSE	53298.0000	45854.0000
2-E33-84	VADOSE	53198.0000	46058.0000
2-E33-85	VADOSE	53298.0000	46141.0000
2-E33-86	VADOSE	53390.0000	46058.0000
2-E33-87	VADOSE	53492.0000	45956.0000
2-E33-88	VADOSE	53592.0000	46051.0000
2-E33-89	VADOSE	52835.0000	45863.0000
2-E33-90	VADOSE	53200.0000	46500.0000
2-E33-91	VADOSE	53250.0000	46370.0000
2-E33-92	VADOSE	53623.0000	45462.0000
2-E33-93	VADOSE	53651.0000	45464.0000
2-E33-94	VADOSE	53507.0000	46104.0000
2-E33-95	VADOSE	53532.0000	46061.0000
2-E33-96	VADOSE	53563.0000	46058.0000
2-E33-97	VADOSE	53588.0000	46072.0000
2-E33-98	VADOSE	53599.0000	46101.0000
2-E33-99	VADOSE	53591.0000	46142.0000
2-E34-51A	VADOSE	48560.0000	44575.0000
2-E34-51B	VADOSE	48560.0000	44575.0000
2-E34-51C	VADOSE	48560.0000	44575.0000
2-E34-51D	VADOSE	48560.0000	44575.0000
2-E34-51E	VADOSE	48560.0000	44575.0000
2-W10-100	VADOSE	75928.0000	42443.0000
2-W10-101	VADOSE	75597.0000	43671.0000
2-W10-102	VADOSE	75595.0000	43632.0000
2-W10-103	VADOSE	75637.0000	43593.0000
2-W10-104	VADOSE	75680.0000	43685.0000
2-W10-105	VADOSE	75637.0000	43692.0000
2-W10-106	VADOSE	75837.0000	43502.0000
2-W10-107	VADOSE	75792.0000	43535.0000
2-W10-108	VADOSE	75805.0000	43580.0000
2-W10-109	VADOSE	75869.0000	43514.0000
2-W10-110	VADOSE	75780.0000	43531.0000
2-W10-111	VADOSE	75809.0000	43511.0000
2-W10-112	VADOSE	75787.0000	43452.0000
2-W10-113	VADOSE	75742.0000	43502.0000
2-W10-114	VADOSE	75870.0000	43480.0000
2-W10-115	VADOSE	75870.0000	43580.0000
2-W10-116	VADOSE	75787.0000	43627.0000
2-W10-117	VADOSE	75796.0000	43604.0000
2-W10-118	VADOSE	75796.0000	43630.0000
2-W10-119	VADOSE	75780.0000	43630.0000
2-W10-120	VADOSE	75882.0000	43447.0000
2-W10-121	VADOSE	75761.0000	43592.0000
2-W10-122	VADOSE	75702.0000	43680.0000
2-W10-123	VADOSE	75723.0000	43596.0000
2-W10-124	VADOSE	75786.0000	43668.0000
2-W10-125	VADOSE	75744.0000	43693.0000
2-W10-126	VADOSE	75818.0000	43693.0000
2-W10-127	VADOSE	75800.0000	43634.0000
2-W10-128	VADOSE	75870.0000	43678.0000
2-W10-129	VADOSE	75620.0000	43500.0000
2-W10-130	VADOSE	75687.0000	43567.0000

2-W10-131	VADOSE	0.0000	0.0000
2-W10-132	VADOSE	0.0000	0.0000
2-W10-133	VADOSE	75761.0000	43397.0000
2-W10-134	VADOSE	75812.0000	43397.0000
2-W10-135	VADOSE	75618.0000	43305.0000
2-W10-136	VADOSE	75657.0000	43305.0000
2-W10-137	VADOSE	75684.0000	43367.0000
2-W10-138	VADOSE	75717.0000	43305.0000
2-W10-139	VADOSE	75790.0000	43327.0000
2-W10-140	VADOSE	75855.0000	43305.0000
2-W10-141	VADOSE	75888.0000	43360.0000
2-W10-142	VADOSE	75650.0000	43397.0000
2-W10-143	VADOSE	75716.0000	43400.0000
2-W10-144	VADOSE	75857.0000	43397.0000
2-W10-145	VADOSE	75847.0000	43603.0000
2-W10-146	VADOSE	75592.0000	43552.0000
2-W10-147	VADOSE	75657.0000	43501.0000
2-W10-148	VADOSE	75685.0000	43527.0000
2-W10-149	VADOSE	75594.0000	43447.0000
2-W10-150	VADOSE	75685.0000	43427.0000
2-W10-151	VADOSE	75684.0000	43327.0000
2-W10-152	VADOSE	75757.0000	43305.0000
2-W10-153	VADOSE	75789.0000	43369.0000
2-W10-154	VADOSE	75817.0000	43305.0000
2-W10-161	VADOSE	75980.0000	42638.0000
2-W10-162	VADOSE	75820.0000	43504.0000
2-W10-164	VADOSE	75785.0000	43493.0000
2-W10-165	VADOSE	75762.0000	43510.0000
2-W10-166	VADOSE	75789.0000	43461.0000
2-W10-167	VADOSE	75799.0000	43520.0000
2-W10-168	VADOSE	75908.0000	43519.0000
2-W10-176	VADOSE	75777.0000	43432.0000
2-W10-177	VADOSE	75759.0000	43387.0000
2-W10-178	VADOSE	75759.0000	43408.0000
2-W10-179	VADOSE	77597.0000	44420.0000
2-W10-180	VADOSE	76050.0000	44786.0000
2-W10-181	VADOSE	76170.0000	44885.0000
2-W10-182	VADOSE	76250.0000	44965.0000
2-W10-183	VADOSE	76350.0000	45050.0000
2-W10-184	VADOSE	76450.0000	45150.0000
2-W10-185	VADOSE	76540.0000	45240.0000
2-W10-186	VADOSE	76530.0000	45365.0000
2-W10-187	VADOSE	76575.0000	45475.0000
2-W10-188	VADOSE	75975.0000	45325.0000
2-W10-189	VADOSE	76186.0000	43537.0000
2-W10-190	VADOSE	76186.0000	43526.0000
2-W10-191	VADOSE	76185.0000	43547.0000
2-W10-193	VADOSE	0.0000	0.0000
2-W10-194	VADOSE	0.0000	0.0000
2-W10-195	VADOSE	0.0000	0.0000
2-W10-51	VADOSE	75774.0000	43484.0000
2-W10-52	VADOSE	75908.0000	43385.0000
2-W10-53	VADOSE	75774.0000	43711.0000
2-W10-54	VADOSE	75907.0000	43584.0000
2-W10-55	VADOSE	75700.0000	43271.0000
2-W10-56	VADOSE	76023.0000	43434.0000
2-W10-57	VADOSE	75994.0000	43449.0000
2-W10-58	VADOSE	75994.0000	43418.0000
2-W10-59	VADOSE	76012.0000	43298.0000
2-W10-60	VADOSE	75998.0000	43298.0000
2-W10-61	VADOSE	76012.0000	43272.0000
2-W10-62	VADOSE	76020.0000	43305.0000

2-W10-63	VADOSE	75980.0000	43265.0000
2-W10-64	VADOSE	75991.0000	43410.0000
2-W10-65	VADOSE	75980.0000	43392.0000
2-W10-66	VADOSE	75988.0000	43272.0000
2-W10-67	VADOSE	75980.0000	43305.0000
2-W10-68	VADOSE	76020.0000	43265.0000
2-W10-69	VADOSE	76110.0000	43320.0000
2-W10-70	VADOSE	76272.0000	43342.0000
2-W10-71	VADOSE	76317.0000	43285.0000
2-W10-72	VADOSE	76160.0000	43270.0000
2-W10-73	VADOSE	76082.0000	43364.0000
2-W10-74	VADOSE	76000.0000	43285.0000
2-W10-75	VADOSE	75980.0000	43431.0000
2-W10-76	VADOSE	76120.0000	43405.0000
2-W10-77	VADOSE	76111.0000	43315.0000
2-W10-78	VADOSE	76236.0000	43270.0000
2-W10-79	VADOSE	76251.0000	43315.0000
2-W10-80	VADOSE	76078.0000	43220.0000
2-W10-81	VADOSE	76096.0000	43270.0000
2-W10-82	VADOSE	75997.0000	42549.0000
2-W10-83	VADOSE	75912.0000	42544.0000
2-W10-84	VADOSE	0.0000	0.0000
2-W10-85	VADOSE	0.0000	0.0000
2-W10-86	VADOSE	0.0000	0.0000
2-W10-87	VADOSE	0.0000	0.0000
2-W10-88	VADOSE	75836.0000	42649.0000
2-W10-89	VADOSE	75836.0000	42570.0000
2-W10-90	VADOSE	75900.0000	42600.0000
2-W10-91	VADOSE	75920.0000	42649.0000
2-W10-92	VADOSE	75920.0000	42570.0000
2-W10-93	VADOSE	76002.0000	42600.0000
2-W10-94	VADOSE	75852.0000	42550.0000
2-W10-95	VADOSE	75804.0000	42498.0000
2-W10-96	VADOSE	75852.0000	42452.0000
2-W10-97	VADOSE	75920.0000	42536.0000
2-W10-98	VADOSE	75954.0000	42452.0000
2-W10-99	VADOSE	76002.0000	42506.0000
2-W11-51	VADOSE	75577.0000	43648.0000
2-W11-52	VADOSE	73173.0000	43172.0000
2-W11-53	VADOSE	75577.0000	43348.0000
2-W11-54	VADOSE	74466.0000	43307.0000
2-W11-55	VADOSE	74450.0000	43333.0000
2-W11-56	VADOSE	74434.0000	43307.0000
2-W11-57	VADOSE	74450.0000	43343.0000
2-W11-58	VADOSE	74474.0000	43301.0000
2-W11-59	VADOSE	74408.0000	43291.0000
2-W11-60	VADOSE	74543.0000	43315.0000
2-W11-61	VADOSE	74483.0000	43296.0000
2-W11-62	VADOSE	74426.0000	43301.0000
2-W11-63	VADOSE	74450.0000	43277.0000
2-W11-64	VADOSE	74436.0000	43339.0000
2-W11-65	VADOSE	74450.0000	43244.0000
2-W11-66	VADOSE	74506.0000	43282.0000
2-W11-67	VADOSE	74374.0000	43244.0000
2-W11-68	VADOSE	75335.0000	43380.0000
2-W11-69	VADOSE	75200.0000	43705.0000
2-W11-70	VADOSE	75330.0000	42425.0000
2-W11-71	VADOSE	0.0000	0.0000
2-W11-72	VADOSE	0.0000	0.0000
2-W11-73	VADOSE	0.0000	0.0000
2-W11-74	VADOSE	0.0000	0.0000
2-W11-75	VADOSE	0.0000	0.0000

2-W15-140	VADOSE	75784.0000	41820.0000
2-W15-141	VADOSE	75852.0000	41696.0000
2-W15-142	VADOSE	75896.0000	41646.0000
2-W15-143	VADOSE	75819.0000	41617.0000
2-W15-144	VADOSE	75783.0000	41785.0000
2-W15-145	VADOSE	75717.0000	41719.0000
2-W15-146	VADOSE	75790.0000	41729.0000
2-W15-147	VADOSE	75885.0000	41785.0000
2-W15-148	VADOSE	75819.0000	41785.0000
2-W15-149	VADOSE	75814.0000	41726.0000
2-W15-150	VADOSE	0.0000	0.0000
2-W15-153	VADOSE	76022.0000	41682.0000
2-W15-154	VADOSE	76058.0000	41608.0000
2-W15-155	VADOSE	75800.0000	41655.0000
2-W15-156	VADOSE	76092.0000	41682.0000
2-W15-157	VADOSE	0.0000	0.0000
2-W15-158	VADOSE	75850.0000	41804.0000
2-W15-159	VADOSE	76030.0000	41899.0000
2-W15-160	VADOSE	75999.0000	41960.0000
2-W15-161	VADOSE	75704.0000	42048.0000
2-W15-162	VADOSE	75765.0000	42106.0000
2-W15-163	VADOSE	75788.0000	42021.0000
2-W15-164	VADOSE	75856.0000	42106.0000
2-W15-165	VADOSE	75960.0000	42106.0000
2-W15-166	VADOSE	75710.0000	41680.0000
2-W15-167	VADOSE	75708.0000	41630.0000
2-W15-168	VADOSE	75750.0000	41603.0000
2-W15-169	VADOSE	75780.0000	41615.0000
2-W15-170	VADOSE	75820.0000	41688.0000
2-W15-171	VADOSE	75763.0000	41708.0000
2-W15-172	VADOSE	75863.0000	41603.0000
2-W15-173	VADOSE	75724.0000	41787.0000
2-W15-174	VADOSE	75702.0000	41757.0000
2-W15-175	VADOSE	75892.0000	41730.0000
2-W15-176	VADOSE	75819.0000	41889.0000
2-W15-177	VADOSE	75934.0000	41898.0000
2-W15-178	VADOSE	75932.0000	41799.0000
2-W15-179	VADOSE	76036.0000	41800.0000
2-W15-180	VADOSE	76098.0000	41868.0000
2-W15-181	VADOSE	75934.0000	42103.0000
2-W15-182	VADOSE	75922.0000	42024.0000
2-W15-183	VADOSE	76001.0000	42054.0000
2-W15-184	VADOSE	75938.0000	42357.0000
2-W15-185	VADOSE	75910.0000	42385.0000
2-W15-186	VADOSE	75872.0000	42357.0000
2-W15-187	VADOSE	75903.0000	41768.0000
2-W15-188	VADOSE	75714.0000	41830.0000
2-W15-189	VADOSE	75793.0000	41871.0000
2-W15-190	VADOSE	75975.0000	41714.0000
2-W15-191	VADOSE	75965.0000	41692.0000
2-W15-192	VADOSE	75945.0000	41692.0000
2-W15-193	VADOSE	75954.0000	41708.0000
2-W15-194	VADOSE	75958.0000	41709.0000
2-W15-195	VADOSE	75956.0000	41708.0000
2-W15-196	VADOSE	75817.0000	41899.0000
2-W15-197	VADOSE	75831.0000	41895.0000
2-W15-198	VADOSE	76333.0000	39995.0000
2-W15-199	VADOSE	76315.0000	39991.0000
2-W15-200	VADOSE	76300.0000	39991.0000
2-W15-201	VADOSE	76282.0000	39995.0000
2-W15-202	VADOSE	76250.0000	39995.0000
2-W15-203	VADOSE	76100.0000	39873.0000

2-W15-204	VADOSE	76373.0000	40673.0000
2-W15-205	VADOSE	76388.0000	40180.0000
2-W15-206	VADOSE	76104.0000	39873.0000
2-W15-207	VADOSE	77736.0000	40732.0000
2-W15-208	VADOSE	75650.0000	39600.0000
2-W15-209	VADOSE	76600.0000	41600.0000
2-W15-210	VADOSE	76590.0000	41730.0000
2-W15-211	VADOSE	76475.0000	41820.0000
2-W15-212	VADOSE	76600.0000	41190.0000
2-W15-213	VADOSE	76250.0000	39999.0000
2-W15-214	VADOSE	76252.0000	40000.0000
2-W15-215	VADOSE	76254.0000	39996.0000
2-W15-51	VADOSE	76535.0000	40804.0000
2-W15-52	VADOSE	76648.0000	40920.0000
2-W15-53	VADOSE	76576.0000	40878.0000
2-W15-54	VADOSE	76628.0000	40920.0000
2-W15-55	VADOSE	76591.0000	40904.0000
2-W15-56	VADOSE	76618.0000	40920.0000
2-W15-57	VADOSE	76591.0000	40936.0000
2-W15-58	VADOSE	76678.0000	40920.0000
2-W15-59	VADOSE	76522.0000	40811.0000
2-W15-60	VADOSE	76535.0000	40788.0000
2-W15-61	VADOSE	76548.0000	40811.0000
2-W15-62	VADOSE	76150.0000	40975.0000
2-W15-63	VADOSE	76100.0000	40975.0000
2-W15-64	VADOSE	75965.0000	40900.0000
2-W15-65	VADOSE	75629.0000	41144.0000
2-W15-66	VADOSE	75629.0000	40934.0000
2-W15-67	VADOSE	75690.0000	41803.0000
2-W15-68	VADOSE	75801.0000	42098.0000
2-W15-69	VADOSE	75903.0000	41590.0000
2-W15-70	VADOSE	75700.0000	41590.0000
2-W15-71	VADOSE	75903.0000	41690.0000
2-W15-72	VADOSE	75903.0000	41894.0000
2-W15-73	VADOSE	76106.0000	41590.0000
2-W15-74	VADOSE	76126.0000	41803.0000
2-W15-75	VADOSE	76056.0000	42007.0000
2-W15-76	VADOSE	76229.0000	40878.0000
2-W15-77	VADOSE	76170.0000	40824.0000
2-W15-78	VADOSE	76100.0000	40824.0000
2-W15-79	VADOSE	75912.0000	42358.0000
2-W15-80	VADOSE	71570.0000	41495.0000
2-W15-81	VADOSE	76745.0000	41640.0000
2-W15-83	VADOSE	0.0000	0.0000
2-W15-87	VADOSE	0.0000	0.0000
2-W15-88	VADOSE	0.0000	0.0000
2-W15-89	VADOSE	0.0000	0.0000
2-W15-90	VADOSE	0.0000	0.0000
2-W15-91	VADOSE	0.0000	0.0000
2-W15-92	VADOSE	0.0000	0.0000
2-W15-93	VADOSE	0.0000	0.0000
2-W15-94	VADOSE	75890.0000	39930.0000
2-W15-96	VADOSE	75933.0000	42446.0000
2-W15-97	VADOSE	75936.0000	42355.0000
2-W15-98	VADOSE	75905.0000	42395.0000
2-W15-99	VADOSE	75922.0000	42364.0000
2-W18-100	VADOSE	75616.0000	37942.0000
2-W18-101	VADOSE	75737.0000	37860.0000
2-W18-102	VADOSE	75686.0000	37901.0000
2-W18-103	VADOSE	75786.0000	37900.0000
2-W18-104	VADOSE	75612.0000	37857.0000
2-W18-105	VADOSE	75737.0000	37947.0000

2-W18-106	VADOSE	0.0000	0.0000
2-W18-107	VADOSE	0.0000	0.0000
2-W18-108	VADOSE	0.0000	0.0000
2-W18-109	VADOSE	75717.0000	37857.0000
2-W18-110	VADOSE	75763.0000	37857.0000
2-W18-111	VADOSE	0.0000	0.0000
2-W18-112	VADOSE	0.0000	0.0000
2-W18-113	VADOSE	75817.0000	37940.0000
2-W18-114	VADOSE	75617.0000	38043.0000
2-W18-115	VADOSE	75692.0000	37976.0000
2-W18-116	VADOSE	75678.0000	38017.0000
2-W18-117	VADOSE	75657.0000	38043.0000
2-W18-118	VADOSE	75787.0000	37977.0000
2-W18-119	VADOSE	75787.0000	38017.0000
2-W18-120	VADOSE	75818.0000	38041.0000
2-W18-121	VADOSE	75862.0000	37956.0000
2-W18-122	VADOSE	75887.0000	37977.0000
2-W18-123	VADOSE	75887.0000	38017.0000
2-W18-124	VADOSE	75687.0000	38077.0000
2-W18-125	VADOSE	75687.0000	38117.0000
2-W18-126	VADOSE	75637.0000	38143.0000
2-W18-127	VADOSE	75722.0000	38047.0000
2-W18-128	VADOSE	75757.0000	38047.0000
2-W18-129	VADOSE	75787.0000	38077.0000
2-W18-130	VADOSE	75787.0000	38117.0000
2-W18-131	VADOSE	75857.0000	38051.0000
2-W18-132	VADOSE	75885.0000	38077.0000
2-W18-133	VADOSE	75885.0000	38117.0000
2-W18-134	VADOSE	75857.0000	38141.0000
2-W18-135	VADOSE	75690.0000	38177.0000
2-W18-136	VADOSE	75687.0000	38217.0000
2-W18-137	VADOSE	75717.0000	38244.0000
2-W18-138	VADOSE	75707.0000	38164.0000
2-W18-139	VADOSE	75757.0000	38151.0000
2-W18-140	VADOSE	75778.0000	38186.0000
2-W18-141	VADOSE	75787.0000	38217.0000
2-W18-142	VADOSE	75757.0000	38244.0000
2-W18-143	VADOSE	75817.0000	38244.0000
2-W18-144	VADOSE	75822.0000	38151.0000
2-W18-145	VADOSE	75885.0000	38177.0000
2-W18-146	VADOSE	75885.0000	38217.0000
2-W18-147	VADOSE	75857.0000	38244.0000
2-W18-148	VADOSE	75657.0000	37857.0000
2-W18-151	VADOSE	77194.0000	39438.0000
2-W18-152	VADOSE	77247.0000	39368.0000
2-W18-153	VADOSE	77154.0000	39365.0000
2-W18-154	VADOSE	77184.0000	39438.0000
2-W18-155	VADOSE	77185.0000	39458.0000
2-W18-156	VADOSE	77216.0000	39475.0000
2-W18-157	VADOSE	77223.0000	39070.0000
2-W18-161	VADOSE	0.0000	0.0000
2-W18-162	VADOSE	77202.0000	39392.0000
2-W18-176	VADOSE	75698.0000	38074.0000
2-W18-177	VADOSE	75500.0000	37680.0000
2-W18-178	VADOSE	76240.0000	38610.0000
2-W18-179	VADOSE	77202.0000	39432.0000
2-W18-180	VADOSE	77225.0000	39367.0000
2-W18-181	VADOSE	77202.0000	39367.0000
2-W18-182	VADOSE	77202.0000	39285.0000
2-W18-183	VADOSE	77204.0000	39190.0000
2-W18-184	VADOSE	77213.0000	39366.0000
2-W18-185	VADOSE	77191.0000	39367.0000

2-W18-186	VADOSE	76685.0000	37270.0000
2-W18-187	VADOSE	76535.0000	37425.0000
2-W18-188	VADOSE	76413.0000	38065.0000
2-W18-189	VADOSE	76388.0000	38605.0000
2-W18-192	VADOSE	76258.0000	38792.0000
2-W18-193	VADOSE	76235.0000	38786.0000
2-W18-194	VADOSE	76133.0000	39010.0000
2-W18-195	VADOSE	76710.0000	37275.0000
2-W18-196	VADOSE	77065.0000	36880.0000
2-W18-197	VADOSE	76405.0000	37095.0000
2-W18-198	VADOSE	76363.0000	38362.0000
2-W18-199	VADOSE	76335.0000	38366.0000
2-W18-200	VADOSE	76070.0000	38976.0000
2-W18-201	VADOSE	76130.0000	39280.0000
2-W18-202	VADOSE	76355.0000	38810.0000
2-W18-203	VADOSE	76482.0000	38270.0000
2-W18-204	VADOSE	76523.0000	37830.0000
2-W18-205	VADOSE	76051.0000	39348.0000
2-W18-206	VADOSE	76096.0000	39256.0000
2-W18-207	VADOSE	76148.0000	39145.0000
2-W18-208	VADOSE	76207.0000	39032.0000
2-W18-209	VADOSE	76270.0000	38898.0000
2-W18-210	VADOSE	76319.0000	38798.0000
2-W18-211	VADOSE	76338.0000	38715.0000
2-W18-212	VADOSE	76355.0000	38645.0000
2-W18-213	VADOSE	76373.0000	38564.0000
2-W18-214	VADOSE	76395.0000	38473.0000
2-W18-215	VADOSE	76422.0000	38370.0000
2-W18-216	VADOSE	76440.0000	33235.0000
2-W18-217	VADOSE	76459.0000	38140.0000
2-W18-218	VADOSE	76462.0000	38058.0000
2-W18-219	VADOSE	76470.0000	37940.0000
2-W18-220	VADOSE	76471.0000	37840.0000
2-W18-221	VADOSE	76006.0000	39525.0000
2-W18-222	VADOSE	76020.0000	39525.0000
2-W18-223	VADOSE	76030.0000	39525.0000
2-W18-224	VADOSE	76040.0000	39525.0000
2-W18-225	VADOSE	76050.0000	39525.0000
2-W18-226	VADOSE	76060.0000	39525.0000
2-W18-227	VADOSE	76070.0000	39525.0000
2-W18-228	VADOSE	76080.0000	39525.0000
2-W18-229	VADOSE	76086.0000	39525.0000
2-W18-230	VADOSE	76096.0000	39525.0000
2-W18-231	VADOSE	76522.0000	37830.0000
2-W18-232	VADOSE	76512.0000	38060.0000
2-W18-233	VADOSE	76023.0000	39080.0000
2-W18-234	VADOSE	76095.0000	38942.0000
2-W18-235	VADOSE	76155.0000	38830.0000
2-W18-236	VADOSE	75954.0000	39213.0000
2-W18-237	VADOSE	76090.0000	38875.0000
2-W18-238	VADOSE	76008.0000	39036.0000
2-W18-239	VADOSE	75965.0000	39115.0000
2-W18-240	VADOSE	75918.0000	39282.0000
2-W18-241	VADOSE	76116.0000	38915.0000
2-W18-242	VADOSE	77202.0000	39255.0000
2-W18-243	VADOSE	77212.0000	39255.0000
2-W18-244	VADOSE	77193.0000	39255.0000
2-W18-245	VADOSE	77219.0000	39255.0000
2-W18-50	VADOSE	0.0000	0.0000
2-W18-51	VADOSE	75700.0000	37822.0000
2-W18-52	VADOSE	75837.0000	38262.0000
2-W18-53	VADOSE	75908.0000	38135.0000

2-W18-54	VADOSE	75775.0000	38035.0000
2-W18-55	VADOSE	75908.0000	37935.0000
2-W18-56	VADOSE	76615.0000	39301.0000
2-W18-57	VADOSE	76587.0000	39309.0000
2-W18-58	VADOSE	76651.0000	39161.0000
2-W18-59	VADOSE	76552.0000	39161.0000
2-W18-60	VADOSE	76614.0000	39424.0000
2-W18-61	VADOSE	76589.0000	39424.0000
2-W18-62	VADOSE	76614.0000	39398.0000
2-W18-63	VADOSE	76589.0000	39398.0000
2-W18-64	VADOSE	76614.0000	39373.0000
2-W18-66	VADOSE	76601.0000	39063.0000
2-W18-69	VADOSE	77241.0000	39350.0000
2-W18-70	VADOSE	77235.0000	39395.0000
2-W18-71	VADOSE	77208.0000	39347.0000
2-W18-72	VADOSE	77208.0000	39298.0000
2-W18-73	VADOSE	77205.0000	39201.0000
2-W18-74	VADOSE	77196.0000	39111.0000
2-W18-75	VADOSE	77211.0000	39371.0000
2-W18-83	VADOSE	77240.0000	38409.0000
2-W18-84	VADOSE	77386.0000	38249.0000
2-W18-90	VADOSE	75860.0000	37857.0000
2-W18-91	VADOSE	75876.0000	37920.0000
2-W18-92	VADOSE	75820.0000	37855.0000
2-W19-51	VADOSE	73500.0000	38160.0000
2-W19-52	VADOSE	73285.0000	38410.0000
2-W19-53	VADOSE	75577.0000	37898.0000
2-W19-54	VADOSE	75577.0000	38197.0000
2-W19-55	VADOSE	73218.0000	38210.0000
2-W19-56	VADOSE	73760.0000	37200.0000
2-W19-57	VADOSE	73840.0000	37265.0000
2-W19-58	VADOSE	73965.0000	37265.0000
2-W19-59	VADOSE	73882.0000	37360.0000
2-W19-60	VADOSE	73810.0000	37445.0000
2-W19-61	VADOSE	73660.0000	37315.0000
2-W19-62	VADOSE	73540.0000	37435.0000
2-W19-63	VADOSE	73710.0000	37565.0000
2-W19-64	VADOSE	73960.0000	37615.0000
2-W19-65	VADOSE	73430.0000	37620.0000
2-W19-66	VADOSE	0.0000	0.0000
2-W19-67	VADOSE	73740.0000	37708.0000
2-W19-68	VADOSE	73565.0000	37735.0000
2-W19-69	VADOSE	73100.0000	36920.0000
2-W19-70	VADOSE	73100.0000	36860.0000
2-W19-71	VADOSE	73100.0000	36800.0000
2-W19-72	VADOSE	74247.0000	37859.0000
2-W19-73	VADOSE	74322.0000	37859.0000
2-W19-74	VADOSE	75594.0000	38017.0000
2-W19-75	VADOSE	75600.0000	37920.0000
2-W19-76	VADOSE	75593.0000	38095.0000
2-W19-77	VADOSE	71789.0000	40105.0000
2-W19-78	VADOSE	0.0000	0.0000
2-W19-79	VADOSE	0.0000	0.0000
2-W19-80	VADOSE	0.0000	0.0000
2-W19-81	VADOSE	0.0000	0.0000
2-W19-82	VADOSE	0.0000	0.0000
2-W19-83	VADOSE	0.0000	0.0000
2-W19-84	VADOSE	0.0000	0.0000
2-W19-85	VADOSE	0.0000	0.0000
2-W19-86	VADOSE	0.0000	0.0000
2-W19-87	VADOSE	0.0000	0.0000
2-W19-88	VADOSE	72450.0000	37490.0000

2-W19-89	VADOSE	72390.0000	37520.0000
2-W19-90	VADOSE	73341.0000	37553.0000
2-W19-91	VADOSE	75269.0000	37617.0000
2-W19-92	VADOSE	75319.0000	37492.0000
2-W19-93	VADOSE	75431.0000	37289.0000
2-W21-51	VADOSE	71500.0000	36500.0000
2-W21-52	VADOSE	71486.0000	36534.0000
2-W21-53	VADOSE	71474.0000	36526.0000
2-W21-54	VADOSE	71466.0000	36514.0000
2-W21-55	VADOSE	71463.0000	36500.0000
2-W21-56	VADOSE	71466.0000	36486.0000
2-W21-57	VADOSE	71474.0000	36474.0000
2-W21-58	VADOSE	71486.0000	36466.0000
2-W21-59	VADOSE	71500.0000	36463.0000
2-W21-60	VADOSE	71514.0000	36466.0000
2-W21-61	VADOSE	71526.0000	36474.0000
2-W21-62	VADOSE	71534.0000	36486.0000
2-W21-63	VADOSE	71537.0000	36500.0000
2-W21-64	VADOSE	71534.0000	36514.0000
2-W21-65	VADOSE	71526.0000	36526.0000
2-W21-66	VADOSE	71514.0000	36534.0000
2-W21-67	VADOSE	71500.0000	36537.0000
2-W21-68	VADOSE	71462.0000	36537.0000
2-W21-69	VADOSE	71552.0000	36500.0000
2-W21-70	VADOSE	71470.0000	36470.0000
2-W21-71	VADOSE	71500.0000	36447.0000
2-W21-72	VADOSE	71530.0000	36469.0000
2-W21-73	VADOSE	71548.0000	36500.0000
2-W21-74	VADOSE	71538.0000	36537.0000
2-W21-75	VADOSE	71500.0000	36543.0000
2-W21-76	VADOSE	71434.0000	36569.0000
2-W21-77	VADOSE	71406.0000	36500.0000
2-W21-78	VADOSE	71434.0000	36434.0000
2-W21-79	VADOSE	71500.0000	36406.0000
2-W21-80	VADOSE	71566.0000	36434.0000
2-W21-81	VADOSE	71594.0000	36500.0000
2-W21-82	VADOSE	71569.0000	36566.0000
2-W21-83	VADOSE	71500.0000	36594.0000
2-W21-84	VADOSE	0.0000	0.0000
2-W22-51	VADOSE	74150.0000	34480.0000
2-W22-52	VADOSE	73950.0000	34480.0000
2-W22-53	VADOSE	75955.0000	35350.0000
2-W22-54	VADOSE	75625.0000	35600.0000
2-W22-55	VADOSE	75625.0000	35075.0000
2-W22-56	VADOSE	74330.0000	34330.0000
2-W22-57	VADOSE	73750.0000	34475.0000
2-W22-58	VADOSE	73500.0000	34450.0000
2-W22-59	VADOSE	73170.0000	35955.0000
2-W22-60	VADOSE	73150.0000	36125.0000
2-W22-61	VADOSE	73300.0000	34296.0000
2-W22-62	VADOSE	73100.0000	36700.0000
2-W22-63	VADOSE	73260.0000	34296.0000
2-W22-64	VADOSE	75100.0000	35429.0000
2-W22-65	VADOSE	73297.0000	34296.0000
2-W22-66	VADOSE	73536.0000	33874.0000
2-W22-67	VADOSE	75200.0000	35400.0000
2-W22-70	VADOSE	0.0000	0.0000
2-W22-73	VADOSE	73120.0000	36339.0000
2-W22-74	VADOSE	73330.0000	34330.0000
2-W22-75	VADOSE	73145.0000	36255.0000
2-W22-76	VADOSE	0.0000	0.0000
2-W22-77	VADOSE	0.0000	0.0000

2-W11-76	VADOSE	0.0000	0.0000
2-W11-77	VADOSE	0.0000	0.0000
2-W11-78	VADOSE	0.0000	0.0000
2-W11-79	VADOSE	74225.0000	43323.0000
2-W11-80	VADOSE	75115.0000	43998.0000
2-W11-81	VADOSE	75025.0000	43768.0000
2-W11-82	VADOSE	75325.0000	42475.0000
2-W11-83	VADOSE	0.0000	0.0000
2-W11-84	VADOSE	0.0000	0.0000
2-W11-85	VADOSE	0.0000	0.0000
2-W14-51	VADOSE	75587.0000	41144.0000
2-W14-52	VADOSE	75587.0000	40934.0000
2-W14-53	VADOSE	75330.0000	42340.0000
2-W14-54	VADOSE	72310.0000	40755.0000
2-W14-55	VADOSE	72100.0000	40740.0000
2-W14-56	VADOSE	73400.0000	40000.0000
2-W14-57	VADOSE	73500.0000	40000.0000
2-W14-58	VADOSE	73660.0000	40000.0000
2-W14-59	VADOSE	75300.0000	41046.0000
2-W14-60	VADOSE	75400.0000	41046.0000
2-W14-61	VADOSE	75400.0000	40946.0000
2-W14-62	VADOSE	75300.0000	42365.0000
2-W14-63	VADOSE	74725.0000	41090.0000
2-W15-100	VADOSE	75910.0000	42377.0000
2-W15-102	VADOSE	76180.0000	39702.0000
2-W15-103	VADOSE	75810.0000	41844.0000
2-W15-104	VADOSE	75886.0000	41820.0000
2-W15-105	VADOSE	75863.0000	41898.0000
2-W15-106	VADOSE	75908.0000	41866.0000
2-W15-107	VADOSE	75978.0000	41813.0000
2-W15-108	VADOSE	75989.0000	41889.0000
2-W15-109	VADOSE	76010.0000	41842.0000
2-W15-110	VADOSE	76080.0000	41813.0000
2-W15-111	VADOSE	76080.0000	41900.0000
2-W15-112	VADOSE	75716.0000	41922.0000
2-W15-113	VADOSE	75781.0000	41925.0000
2-W15-114	VADOSE	75750.0000	42004.0000
2-W15-115	VADOSE	75809.0000	41950.0000
2-W15-116	VADOSE	75886.0000	41922.0000
2-W15-117	VADOSE	75863.0000	41999.0000
2-W15-118	VADOSE	75912.0000	41949.0000
2-W15-119	VADOSE	75982.0000	41923.0000
2-W15-120	VADOSE	75969.0000	41996.0000
2-W15-121	VADOSE	75818.0000	42094.0000
2-W15-122	VADOSE	75894.0000	42082.0000
2-W15-123	VADOSE	75908.0000	42070.0000
2-W15-124	VADOSE	75976.0000	42020.0000
2-W15-125	VADOSE	75989.0000	42093.0000
2-W15-126	VADOSE	75954.0000	41698.0000
2-W15-127	VADOSE	75954.0000	41602.0000
2-W15-128	VADOSE	76002.0000	41654.0000
2-W15-129	VADOSE	76056.0000	41698.0000
2-W15-130	VADOSE	76022.0000	41616.0000
2-W15-131	VADOSE	76096.0000	41626.0000
2-W15-132	VADOSE	75978.0000	41794.0000
2-W15-133	VADOSE	75917.0000	41721.0000
2-W15-134	VADOSE	76066.0000	41760.0000
2-W15-135	VADOSE	76080.0000	41794.0000
2-W15-136	VADOSE	76022.0000	41718.0000
2-W15-137	VADOSE	76104.0000	41748.0000
2-W15-138	VADOSE	75750.0000	41902.0000
2-W15-139	VADOSE	75705.0000	41870.0000

2-W23-100	VADOSE	75804.0000	35318.0000
2-W23-101	VADOSE	75789.0000	35391.0000
2-W23-102	VADOSE	75744.0000	35390.0000
2-W23-103	VADOSE	75719.0000	35355.0000
2-W23-104	VADOSE	75812.0000	35356.0000
2-W23-105	VADOSE	75833.0000	35317.0000
2-W23-106	VADOSE	75872.0000	35297.0000
2-W23-107	VADOSE	75907.0000	35319.0000
2-W23-108	VADOSE	75915.0000	35360.0000
2-W23-109	VADOSE	75889.0000	35392.0000
2-W23-110	VADOSE	75847.0000	35391.0000
2-W23-111	VADOSE	75832.0000	35277.0000
2-W23-112	VADOSE	75824.0000	35229.0000
2-W23-113	VADOSE	75865.0000	35195.0000
2-W23-114	VADOSE	75895.0000	35206.0000
2-W23-115	VADOSE	75915.0000	35234.0000
2-W23-116	VADOSE	75909.0000	35272.0000
2-W23-117	VADOSE	75827.0000	35168.0000
2-W23-118	VADOSE	75824.0000	35126.0000
2-W23-119	VADOSE	75854.0000	35098.0000
2-W23-120	VADOSE	75916.0000	35134.0000
2-W23-121	VADOSE	75904.0000	35177.0000
2-W23-122	VADOSE	75694.0000	36087.0000
2-W23-123	VADOSE	75636.0000	36161.0000
2-W23-124	VADOSE	75631.0000	36090.0000
2-W23-125	VADOSE	75750.0000	35405.0000
2-W23-126	VADOSE	75792.0000	35410.0000
2-W23-127	VADOSE	75817.0000	35444.0000
2-W23-128	VADOSE	75809.0000	35475.0000
2-W23-129	VADOSE	75760.0000	35498.0000
2-W23-130	VADOSE	75726.0000	35475.0000
2-W23-131	VADOSE	75720.0000	35440.0000
2-W23-132	VADOSE	75643.0000	35590.0000
2-W23-133	VADOSE	75665.0000	35508.0000
2-W23-134	VADOSE	75705.0000	35534.0000
2-W23-135	VADOSE	75745.0000	35590.0000
2-W23-136	VADOSE	75811.0000	35548.0000
2-W23-137	VADOSE	75869.0000	35596.0000
2-W23-138	VADOSE	75869.0000	35508.0000
2-W23-139	VADOSE	75913.0000	35548.0000
2-W23-140	VADOSE	75641.0000	35488.0000
2-W23-141	VADOSE	75689.0000	35483.0000
2-W23-142	VADOSE	75847.0000	35488.0000
2-W23-143	VADOSE	75838.0000	35419.0000
2-W23-144	VADOSE	75913.0000	35446.0000
2-W23-145	VADOSE	75642.0000	36266.0000
2-W23-146	VADOSE	75665.0000	36180.0000
2-W23-147	VADOSE	75707.0000	36207.0000
2-W23-148	VADOSE	75744.0000	36266.0000
2-W23-149	VADOSE	75783.0000	36183.0000
2-W23-150	VADOSE	75810.0000	36242.0000
2-W23-151	VADOSE	75846.0000	36266.0000
2-W23-152	VADOSE	75885.0000	36183.0000
2-W23-153	VADOSE	75912.0000	36242.0000
2-W23-154	VADOSE	75724.0000	36140.0000
2-W23-155	VADOSE	75783.0000	36081.0000
2-W23-156	VADOSE	75810.0000	36140.0000
2-W23-157	VADOSE	75837.0000	36156.0000
2-W23-158	VADOSE	75885.0000	36081.0000
2-W23-159	VADOSE	75912.0000	36140.0000
2-W23-160	VADOSE	75642.0000	36062.0000
2-W23-161	VADOSE	75663.0000	35972.0000

2-W23-162	VADOSE	75705.0000	36045.0000
2-W23-163	VADOSE	75767.0000	35979.0000
2-W23-164	VADOSE	75813.0000	36026.0000
2-W23-165	VADOSE	75837.0000	36054.0000
2-W23-166	VADOSE	75877.0000	35977.0000
2-W23-167	VADOSE	75912.0000	36038.0000
2-W23-168	VADOSE	75619.0000	35924.0000
2-W23-169	VADOSE	75665.0000	35874.0000
2-W23-170	VADOSE	75711.0000	35924.0000
2-W23-171	VADOSE	75744.0000	35960.0000
2-W23-172	VADOSE	75783.0000	35877.0000
2-W23-173	VADOSE	75810.0000	35936.0000
2-W23-174	VADOSE	75837.0000	35952.0000
2-W23-175	VADOSE	75869.0000	35874.0000
2-W23-176	VADOSE	75915.0000	35924.0000
2-W23-177	VADOSE	75698.0000	36091.0000
2-W23-178	VADOSE	75747.0000	36072.0000
2-W23-179	VADOSE	75620.0000	36214.0000
2-W23-180	VADOSE	75695.0000	36266.0000
2-W23-181	VADOSE	75753.0000	36183.0000
2-W23-182	VADOSE	75786.0000	36271.0000
2-W23-183	VADOSE	75910.0000	36200.0000
2-W23-184	VADOSE	75885.0000	36271.0000
2-W23-185	VADOSE	75620.0000	36012.0000
2-W23-186	VADOSE	75709.0000	36000.0000
2-W23-187	VADOSE	75678.0000	36068.0000
2-W23-188	VADOSE	75726.0000	36249.0000
2-W23-189	VADOSE	75815.0000	36204.0000
2-W23-190	VADOSE	75628.0000	35527.0000
2-W23-191	VADOSE	75711.0000	35567.0000
2-W23-192	VADOSE	75680.0000	35592.0000
2-W23-193	VADOSE	75795.0000	35590.0000
2-W23-194	VADOSE	75832.0000	35578.0000
2-W23-195	VADOSE	75833.0000	35520.0000
2-W23-196	VADOSE	75900.0000	35582.0000
2-W23-197	VADOSE	75616.0000	35452.0000
2-W23-198	VADOSE	75639.0000	35412.0000
2-W23-199	VADOSE	75819.0000	36111.0000
2-W23-200	VADOSE	75859.0000	36072.0000
2-W23-201	VADOSE	75910.0000	36102.0000
2-W23-202	VADOSE	75799.0000	35990.0000
2-W23-203	VADOSE	75907.0000	35995.0000
2-W23-204	VADOSE	75632.0000	35880.0000
2-W23-205	VADOSE	75687.0000	35882.0000
2-W23-206	VADOSE	75747.0000	35875.0000
2-W23-207	VADOSE	75815.0000	35900.0000
2-W23-208	VADOSE	75901.0000	35885.0000
2-W23-210	VADOSE	76120.0000	36322.0000
2-W23-212	VADOSE	75823.0000	36228.0000
2-W23-213	VADOSE	75829.0000	36101.0000
2-W23-216	VADOSE	75767.0000	36070.0000
2-W23-218	VADOSE	75642.0000	35959.0000
2-W23-220	VADOSE	75829.0000	35897.0000
2-W23-223	VADOSE	75747.0000	35509.0000
2-W23-225	VADOSE	75704.0000	35427.0000
2-W23-226	VADOSE	75869.0000	35404.0000
2-W23-227	VADOSE	75891.0000	35489.0000
2-W23-229	VADOSE	75620.0000	35665.0000
2-W23-51	VADOSE	75615.0000	36175.0000
2-W23-52	VADOSE	75722.0000	36186.0000
2-W23-53	VADOSE	75827.0000	36186.0000
2-W23-54	VADOSE	75722.0000	36082.0000

2-W23-55	VADOSE	75827.0000	36082.0000
2-W23-56	VADOSE	75722.0000	35875.0000
2-W23-57	VADOSE	75827.0000	35980.0000
2-W23-58	VADOSE	75900.0000	35501.0000
2-W23-59	VADOSE	75808.0000	35520.0000
2-W23-60	VADOSE	75665.0000	35520.0000
2-W23-61	VADOSE	75600.0000	35520.0000
2-W23-62	VADOSE	75695.0000	35405.0000
2-W23-63	VADOSE	76400.0000	35925.0000
2-W23-64	VADOSE	75810.0000	35287.0000
2-W23-65	VADOSE	75923.0000	35297.0000
2-W23-66	VADOSE	75614.0000	35271.0000
2-W23-67	VADOSE	75710.0000	35273.0000
2-W23-68	VADOSE	75829.0000	35206.0000
2-W23-69	VADOSE	75737.0000	35102.0000
2-W23-70	VADOSE	75894.0000	35099.0000
2-W23-71	VADOSE	76300.0000	35800.0000
2-W23-72	VADOSE	75705.0000	35177.0000
2-W23-73	VADOSE	75668.0000	35397.0000
2-W23-74	VADOSE	75631.0000	35383.0000
2-W23-75	VADOSE	75617.0000	35344.0000
2-W23-76	VADOSE	75639.0000	35308.0000
2-W23-77	VADOSE	75681.0000	35302.0000
2-W23-78	VADOSE	75711.0000	35332.0000
2-W23-79	VADOSE	75706.0000	35374.0000
2-W23-80	VADOSE	75645.0000	35290.0000
2-W23-81	VADOSE	75617.0000	35242.0000
2-W23-82	VADOSE	75638.0000	35206.0000
2-W23-83	VADOSE	75675.0000	35199.0000
2-W23-84	VADOSE	75709.0000	35227.0000
2-W23-85	VADOSE	75690.0000	35287.0000
2-W23-86	VADOSE	75720.0000	35131.0000
2-W23-87	VADOSE	75773.0000	35096.0000
2-W23-88	VADOSE	75803.0000	35112.0000
2-W23-89	VADOSE	75815.0000	35151.0000
2-W23-90	VADOSE	75796.0000	35182.0000
2-W23-91	VADOSE	75730.0000	35175.0000
2-W23-92	VADOSE	75736.0000	35209.0000
2-W23-93	VADOSE	75767.0000	35194.0000
2-W23-94	VADOSE	75805.0000	35217.0000
2-W23-95	VADOSE	75814.0000	35253.0000
2-W23-96	VADOSE	75741.0000	35286.0000
2-W23-97	VADOSE	75719.0000	35253.0000
2-W23-98	VADOSE	75731.0000	35316.0000
2-W23-99	VADOSE	75767.0000	35300.0000
2-W26-51	VADOSE	77710.0000	33240.0000
2-W7-51	VADOSE	76700.0000	45525.0000
2-W7-52	VADOSE	76825.0000	45530.0000
2-W7-53	VADOSE	76865.0000	45475.0000
6-43-42BP	VADOSE	41773.0000	43118.0000
6-43-42BQ	VADOSE	41773.0000	43118.0000
6-43-42BR	VADOSE	41773.0000	43118.0000
6-43-42CP	VADOSE	41747.0000	43125.0000
6-43-42CQ	VADOSE	41747.0000	43125.0000
6-43-42DP	VADOSE	41726.0000	43131.0000
6-43-42DQ	VADOSE	41726.0000	43131.0000
6-43-42DR	VADOSE	41726.0000	43131.0000
6-43-42EP	VADOSE	41705.0000	42892.0000
6-43-42EQ	VADOSE	41705.0000	42892.0000
6-43-42ER	VADOSE	41705.0000	42892.0000
6-43-42FP	VADOSE	41667.0000	42894.0000
6-43-42FQ	VADOSE	41667.0000	42894.0000

6-43-42GQ	VADOSE	41828.0000	43362.0000
6-43-42HP	VADOSE	41790.0000	43368.0000
6-43-42HQ	VADOSE	41790.0000	43368.0000

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
2-E13-1	OTHER 2E	53260.0000	35800.0000		
2-E13-10	OTHER 2E	54798.0000	35348.0000		
2-E13-11	OTHER 2E	54170.0000	35199.0000		
2-E13-12	OTHER 2E	54820.0000	35001.0000		
2-E13-13	OTHER 2E	54100.0000	34800.0000		
2-E13-15	OTHER 2E	55470.0000	35660.0000		
2-E13-16	OTHER 2E	54840.0000	35660.0000		
2-E13-17	OTHER 2E	55250.0000	35230.0000		
2-E13-18	OTHER 2E	55050.0000	35230.0000		
2-E13-2	OTHER 2E	53446.0000	35564.0000		
2-E13-20	OTHER 2E	53440.0000	35543.0000		
2-E13-20O	OTHER 2E	53440.0000	35543.0000		
2-E13-20P	OTHER 2E	53440.0000	35543.0000		
2-E13-20Q	OTHER 2E	53440.0000	35543.0000		
2-E13-20R	OTHER 2E	53440.0000	35543.0000		
2-E13-21	OTHER 2E	53420.0000	35730.0000		
2-E13-3	OTHER 2E	53408.0000	35734.0000		
2-E13-4	OTHER 2E	53550.0000	35809.0000		
2-E13-6	OTHER 2E	53589.0000	35641.0000		
2-E13-7	OTHER 2E	54107.0000	35631.0000		
2-E13-9	OTHER 2E	54297.0000	35900.0000		
2-E16-1	OTHER 2E	46303.0000	38505.0000		
2-E16-1P	OTHER 2E	46303.0000	38505.0000		
2-E16-1Q	OTHER 2E	46303.0000	38505.0000		
2-E16-1R	OTHER 2E	46303.0000	38505.0000		
2-E17-10	OTHER 2E	48650.0000	38896.0000		
2-E17-11	OTHER 2E	48509.0000	38924.0000		
2-E17-3	OTHER 2E	48340.0000	39066.0000		
2-E17-4	OTHER 2E	48480.0000	38999.0000		
2-E17-7	OTHER 2E	48559.0000	38711.0000		
2-E19-1	OTHER 2E	56023.0000	38085.0000		
2-E23-2O	OTHER 2E	53000.0000	40000.0000		
2-E23-2P	OTHER 2E	53000.0000	40000.0000		
2-E23-2Q	OTHER 2E	53000.0000	40000.0000		
2-E24-10	OTHER 2E	48710.0000	39379.0000		
2-E24-11	OTHER 2E	49252.0000	39371.0000		
2-E24-14	OTHER 2E	47799.0000	41125.0000		
2-E24-15	OTHER 2E	48920.0000	39300.0000		
2-E24-5	OTHER 2E	48727.0000	41275.0000		
2-E24-6	OTHER 2E	48644.0000	41335.0000		
2-E24-8P	OTHER 2E	50346.0000	41962.0000		
2-E24-9	OTHER 2E	48292.0000	39295.0000		
2-E25-12	OTHER 2E	45655.0000	39388.0000		
2-E25-14	OTHER 2E	46650.0000	41600.0000		
2-E25-5	OTHER 2E	46632.0000	41667.0000		
2-E25-7	OTHER 2E	46416.0000	41709.0000		
2-E25-8	OTHER 2E	46187.0000	41682.0000		
2-E26-1	OTHER 2E	48025.0000	44774.0000		
2-E26-3	OTHER 2E	46057.0000	42324.0000		
2-E26-5	OTHER 2E	46842.0000	42172.0000		
2-E26-7	OTHER 2E	46650.0000	42285.0000		
2-E27-1	OTHER 2E	50440.0000	42833.0000		
2-E27-16	OTHER 2E	51544.0000	44897.0000		
2-E27-2	OTHER 2E	48025.0000	42186.0000		
2-E27-3	OTHER 2E	48500.0000	42000.0000		
2-E27-30	OTHER 2E	48500.0000	42000.0000		

2-E27-3P	OTHER 2E	48500.0000	42000.0000
2-E27-6	OTHER 2E	48055.0000	42155.0000
2-E28-10	OTHER 2E	53000.0000	44000.0000
2-E28-11	OTHER 2E	54420.0000	42580.0000
2-E28-14	OTHER 2E	52635.0000	42885.0000
2-E28-15	OTHER 2E	54420.0000	42588.0000
2-E28-2	OTHER 2E	53105.0000	43913.0000
2-E28-20	OTHER 2E	55188.0000	43705.0000
2-E28-22	OTHER 2E	52006.0000	42130.0000
2-E28-3	OTHER 2E	53093.0000	43071.0000
2-E28-4	OTHER 2E	52148.0000	42773.0000
2-E28-6	OTHER 2E	52855.0000	42445.0000
2-E28-8	OTHER 2E	53124.0000	44603.0000
2-E29-1	OTHER 2E	56000.0000	42004.0000
2-E33-11	OTHER 2E	52452.0000	46444.0000
2-E33-16	OTHER 2E	52815.0000	45887.0000
2-E33-17	OTHER 2E	52529.0000	45894.0000
2-E33-2	OTHER 2E	53384.0000	46466.0000
2-E33-22	OTHER 2E	53300.0000	46450.0000
2-E33-23	OTHER 2E	53350.0000	46600.0000
2-E33-25	OTHER 2E	54210.0000	46600.0000
2-E33-36	OTHER 2E	51906.0000	45145.0000
2-E33-37	OTHER 2E	51832.0000	44965.0000
2-E33-6	OTHER 2E	53524.0000	46503.0000
2-E34-8	OTHER 2E	51454.0000	45175.0000

WELL	CATEGORY	EW	NS	SITE	ACCESS	COMMENTS
2-W10-2	OTHER 2W	76183.0000	43154.0000			
2-W10-6	OTHER 2W	76095.0000	42670.0000			
2-W10-7	OTHER 2W	75615.0000	42670.0000			
2-W11-1	OTHER 2W	74378.0000	43274.0000			
2-W11-10	OTHER 2W	71500.0000	43150.0000			
2-W11-12	OTHER 2W	75340.0000	43098.0000			
2-W11-13	OTHER 2W	74781.0000	42529.0000			
2-W11-13O	OTHER 2W	74781.0000	42529.0000			
2-W11-13P	OTHER 2W	74781.0000	42529.0000			
2-W11-13Q	OTHER 2W	74781.0000	42529.0000			
2-W11-16	OTHER 2W	74310.0000	44720.0000			
2-W11-17	OTHER 2W	74535.0000	44655.0000			
2-W11-19	OTHER 2W	74400.0000	44870.0000			
2-W11-2	OTHER 2W	73772.0000	43335.0000			
2-W11-20	OTHER 2W	74500.0000	44850.0000			
2-W11-21	OTHER 2W	74500.0000	44850.0000			
2-W11-26	OTHER 2W	74959.0000	42986.0000			
2-W11-20	OTHER 2W	73772.0000	43335.0000			
2-W11-2P	OTHER 2W	73772.0000	43335.0000			
2-W11-2Q	OTHER 2W	73772.0000	43335.0000			
2-W11-2R	OTHER 2W	73772.0000	43335.0000			
2-W11-2S	OTHER 2W	73772.0000	43335.0000			
2-W11-2T	OTHER 2W	73772.0000	43335.0000			
2-W11-4	OTHER 2W	73904.0000	43060.0000			
2-W11-5	OTHER 2W	73650.0000	43075.0000			
2-W11-6	OTHER 2W	73525.0000	42750.0000			
2-W11-8	OTHER 2W	72992.0000	42759.0000			
2-W14-1	OTHER 2W	75262.0000	42159.0000	241-TX		
2-W14-3	OTHER 2W	75304.0000	42263.0000	241-TX		
2-W14-3O	OTHER 2W	0.0000	0.0000			
2-W14-3P	OTHER 2W	75305.0000	42265.0000			
2-W14-4	OTHER 2W	75369.0000	42283.0000			
2-W14-7	OTHER 2W	75002.0000	40003.0000			
2-W14-8	OTHER 2W	71795.0000	40098.0000			

2-W14-8A	OTHER	2W	71788.0000	40105.0000
2-W14-9	OTHER	2W	0.0000	0.0000
2-W15-1	OTHER	2W	76576.0000	40962.0000
2-W15-13	OTHER	2W	75615.0000	42350.0000
2-W15-14	OTHER	2W	78089.0000	39990.0000
2-W15-21	OTHER	2W	0.0000	0.0000
2-W15-5	OTHER	2W	75984.0000	39537.0000
2-W15-5O	OTHER	2W	75984.0000	39537.0000
2-W15-5P	OTHER	2W	75984.0000	39537.0000
2-W15-5Q	OTHER	2W	75984.0000	39537.0000
2-W15-5R	OTHER	2W	75984.0000	39537.0000
2-W15-5S	OTHER	2W	75984.0000	39537.0000
2-W18-1	OTHER	2W	77013.0000	39388.0000
2-W18-13	OTHER	2W	77250.0000	39370.0000
2-W18-14	OTHER	2W	77210.0000	39370.0000
2-W18-8	OTHER	2W	77221.0000	39327.0000
2-W19-10	OTHER	2W	75000.0000	37201.0000
2-W19-10	OTHER	2W	75491.0000	37613.0000
2-W19-1P	OTHER	2W	75491.0000	37613.0000
2-W19-22	OTHER	2W	74796.0000	37628.0000
2-W19-30	OTHER	2W	72934.7000	37603.2000
2-W19-4	OTHER	2W	71999.0000	39000.0000
2-W19-4O	OTHER	2W	71999.0000	39000.0000
2-W19-4P	OTHER	2W	71999.0000	39000.0000
2-W19-4Q	OTHER	2W	71999.0000	39000.0000
2-W19-4R	OTHER	2W	71999.0000	39000.0000
2-W19-4S	OTHER	2W	71999.0000	39000.0000
2-W19-6	OTHER	2W	74710.0000	36850.0000
2-W19-7	OTHER	2W	74125.0000	37000.0000
2-W19-8	OTHER	2W	73268.0000	38574.0000
2-W21-1	OTHER	2W	71382.0000	35868.0000
2-W22-11	OTHER	2W	75277.0000	35450.0000
2-W22-11O	OTHER	2W	75277.0000	35450.0000
2-W22-11P	OTHER	2W	75277.0000	35450.0000
2-W22-13	OTHER	2W	74671.0000	35140.0000
2-W22-14	OTHER	2W	74513.0000	35120.0000
2-W22-14O	OTHER	2W	74513.0000	35120.0000
2-W22-14P	OTHER	2W	74513.0000	35120.0000
2-W22-15	OTHER	2W	75182.0000	35507.0000
2-W22-16	OTHER	2W	75209.0000	35335.0000
2-W22-17	OTHER	2W	75082.0000	35534.0000
2-W22-23	OTHER	2W	73198.0000	36030.0000
2-W22-24	OTHER	2W	72998.0000	35917.0000
2-W22-24O	OTHER	2W	72997.0000	35917.0000
2-W22-24P	OTHER	2W	72997.0000	35917.0000
2-W22-24Q	OTHER	2W	72997.0000	35917.0000
2-W22-24R	OTHER	2W	72997.0000	35917.0000
2-W22-24S	OTHER	2W	72997.0000	35917.0000
2-W22-24T	OTHER	2W	72997.0000	35917.0000
2-W22-25	OTHER	2W	74504.0000	35901.0000
2-W22-27	OTHER	2W	74627.0000	36203.0000
2-W22-27O	OTHER	2W	74627.0000	36203.0000
2-W22-27P	OTHER	2W	74627.0000	36203.0000
2-W22-27Q	OTHER	2W	74627.0000	36203.0000
2-W22-27R	OTHER	2W	74627.0000	36203.0000
2-W22-27S	OTHER	2W	74627.0000	36203.0000
2-W22-28	OTHER	2W	73770.0000	36150.0000
2-W22-29	OTHER	2W	75195.0000	35428.0000
2-W22-3	OTHER	2W	75158.0000	35412.0000
2-W22-30	OTHER	2W	75165.0000	35411.0000
2-W22-31	OTHER	2W	75198.0000	35446.0000
2-W22-32	OTHER	2W	74540.0000	35151.0000

2-W22-33	OTHER 2W	74600.0000	35135.0000
2-W22-34	OTHER 2W	74465.0000	36105.0000
2-W22-35	OTHER 2W	74610.0000	36200.0000
2-W22-36	OTHER 2W	75221.0000	35455.0000
2-W22-37	OTHER 2W	74845.0000	36800.0000
2-W22-38	OTHER 2W	74670.0000	36700.0000
2-W22-4	OTHER 2W	74853.0000	35408.0000
2-W22-40	OTHER 2W	73042.0000	36242.0000
2-W22-41	OTHER 2W	73034.0000	36142.0000
2-W22-42	OTHER 2W	73080.0000	36053.0000
2-W22-43	OTHER 2W	73377.0000	36339.0000
2-W22-5	OTHER 2W	75034.0000	35411.0000
2-W22-6	OTHER 2W	73380.0000	35412.0000
2-W22-7	OTHER 2W	73630.0000	35337.0000
2-W22-8	OTHER 2W	72710.0000	35409.0000
2-W23-12	OTHER 2W	75625.0000	35969.0000
2-W23-5	OTHER 2W	75550.0000	35200.0000
2-W23-6	OTHER 2W	75550.0000	35010.0000
2-W23-8	OTHER 2W	76100.0000	35520.0000
2-W26-1	OTHER 2W	77493.0000	33211.0000
2-W26-2	OTHER 2W	77500.0000	33300.0000
2-W26-4	OTHER 2W	77201.0000	32945.0000
2-W26-5	OTHER 2W	77223.0000	32964.0000

WELL SURVEY DATA BASE

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
3-1-1	300-FF-5	-14451.0000	-22769.0000	300 Area PT	N
3-1-10	300-FF-5	-14413.0000	-22293.0000	300 Area PT	N
3-1-11	300-FF-5	-13635.0000	-22523.0000	300 Area PT	FR
3-1-12	300-FF-5	-13399.0000	-22888.0000	300 Area PT	N
3-1-13	300-FF-5	-12973.0000	-22850.0000	300 Area PT	N
3-1-14	300-FF-5	-12955.0000	-22126.0000	300 Area PT	N
3-1-15	300-FF-5	-13250.0000	-21520.0000	300 Area PT	N
3-1-16A	300-FF-5	-14304.0000	-23341.0000	300 Area PT	F
3-1-16B	300-FF-5	-14326.0000	-23350.0000	300 Area PT	F
3-1-16C	300-FF-5	-14284.0000	-23353.0000	300 Area PT	F
3-1-17A	300-FF-5	-13630.0000	-23331.0000	300 Area PT	N
3-1-17B	300-FF-5	-13604.0000	-23317.0000	300 Area PT	N
3-1-17C	300-FF-5	-13603.0000	-23346.0000	300 Area PT	N
3-1-18A	300-FF-5	-12877.0000	-20407.0000	300 Area PT	N
3-1-18B	300-FF-5	-12865.0000	-20420.0000	300 Area PT	N
3-1-18C	300-FF-5	-12886.0000	-20430.0000	300 Area PT	N
3-1-19	300-FF-5	-13543.0000	-23162.0000	300 Area PT	FR
3-1-2	300-FF-5	-13527.0000	-23607.0000	300 Area PT	N
3-1-5	300-FF-5	-13634.0000	-22878.0000	300 Area PT	FR
3-1-6	300-FF-5	-13752.0000	-21738.0000	300 Area PT	N
3-1-7	300-FF-5	-14111.0000	-23597.0000	300 Area PT	F
3-1-8	300-FF-5	-14103.0000	-23615.0000	300 Area PT	F
3-1-9	300-FF-5	-14091.0000	-23610.0000	300 Area PT	F
3-2-1	300-FF-5	-14780.0000	-24308.0000	300 Area PT	N
3-2-2	300-FF-5	-14520.0000	-23775.0000	300 Area PT	F
3-2-3	300-FF-5	-14490.0000	-23979.0000	300 Area PT	F
3-3-10	300-FF-5	-14972.0000	-25260.0000	300 Area PT	L
3-3-11	300-FF-5	-14245.0000	-25376.0000	PR	NEXT TO ROAD 100'E./324 BLDG
3-3-12	300-FF-5	-13940.0000	-24869.0000	300 Area PT	
3-3-2	300-FF-5	-12991.0000	-25326.0000	300 Area PT	L
3-3-3	300-FF-5	-13394.0000	-25327.0000	P	E. OF 329 BLDG. NOT FOUND
3-3-7	300-FF-5	-13394.0000	-24776.0000	300 Area PT	L
3-3-9	300-FF-5	-14892.0000	-24977.0000	300 Area PT	L
3-4-1	300-FF-5	-14118.0000	-26215.0000	300 Area PT	L
3-4-10	300-FF-5	-15083.0000	-25840.0000	300 Area PT	L
3-4-11	300-FF-5	-13515.0000	-25643.0000	300 Area PT	L
3-4-12	300-FF-5	0.0000	0.0000	L	
3-4-7	300-FF-5	-15196.0000	-26377.0000	300 Area PT	L
3-4-9	300-FF-5	-14993.0000	-25558.0000	300 Area PT	L
3-5-1	300-FF-5	-12400.0000	-26229.0000	300 Area PT	L
3-6-1	300-FF-5	-11681.0000	-25294.0000	300 Area PT	N
3-8-1	300-FF-5	-12051.0000	-23577.0000	300 Area PT	N
3-8-2	300-FF-5	-10639.0000	-23660.0000	300 Area PT	N
3-8-3	300-FF-5	-12047.0000	-22423.0000	300 Area PT	N
3-8-4	300-FF-5	-9557.0000	-23658.0000	N	

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
3-1-20	300-FF-1	-15708.0000	55795.0000	F	NOT LABELED
3-1-3	300-FF-1	-14091.0000	-23598.0000	300 Area PT	F
3-1-4	300-FF-1	-13343.0000	-22390.0000	300 Area PT	N
3-3-1	300-FF-1	-14821.0000	-24681.0000	300 Area PT	N
3-3-6	300-FF-1	-12999.0000	-24863.0000	300 Area PT	L
3-3-8	300-FF-1	-13802.0000	-24928.0000	L	NOT FOUND
3-4-5	300-FF-1	-13644.0000	-25877.0000	L	NOT FOUND
3-4-8	300-FF-1	-15398.0000	-27254.0000	L	NOT FOUND

3-5-2	300-FF-1	-9325.0000	-26416.0000	N
WELL	CATEGORY	EW	NS SITE	ACCESS COMMENTS
6-S27-E14	1100-EM-1	-13673.0000	-27286.0000 300 Area PT	N
6-S29-E12	1100-EM-1	-12065.0000	-29392.0000 300 Area PT	N
6-S30-E15A	1100-EM-1	-14838.0000	-30257.0000 300 Area PT	N
6-S31-1	1100-EM-1	725.0000	-30600.0000	N
6-S31-E13	1100-EM-1	-13097.0000	-31224.0000	N
6-S32-E13A	1100-EM-1	-13166.0000	-31640.0000	N
6-S32-E13B	1100-EM-1	-12587.0000	-31653.0000	N
6-S36-E12B	1100-EM-1	-12350.0000	-36182.0000	N
6-S36-E13A	1100-EM-1	-12847.0000	-35689.0000	N
6-S36-E13B	1100-EM-1	-12845.0000	-36195.0000	N
6-S37-E14	1100-EM-1	-13980.0000	-37276.0000 1100-EM-1	N
6-S40-E14	1100-EM-1	-13927.0000	-39745.0000 1100-EM-1	N
6-S41-E13A	1100-EM-1	-12811.0000	-41004.0000 1100-EM-1	N
6-S41-E13B	1100-EM-1	-12813.0000	-40970.0000 1100-EM-1	N
6-S43-E12	1100-EM-1	-11986.0000	-43060.0000 1100-EM-1	N
11-34-13	1100-EM-1	-11597.0000	-45351.0000	N
11-41-13C	1100-EM-1	-11653.0000	-38347.0000	N
30-45-16	1100-EM-1	-14780.0000	-34269.0000	N
30-47-18B	1100-EM-1	-16080.0000	-32257.0000	N
6-S41-E11	1100-EM-1	-11010.0000	-41188.0000 1100-EM-1	N
6-S34-E10	1100-EM-1	-9835.0000	-34392.0000 1100-EM-1	N
6-S41-E12	1100-EM-1	-11538.0000	-40975.0000 1100-EM-1	N
6-S38-E12A	1100-EM-1	-12053.0000	-37863.0000 1100-EM-1	N
6-S38-E12B	1100-EM-1	-12053.0000	-37886.0000 1100-EM-1	N
6-S37-E11	1100-EM-1	-11314.0000	-37255.0000 1100-EM-1	N
6-S38-E11	1100-EM-1	-10501.0000	-38175.0000 1100-EM-1	N
6-S31-E8	1100-EM-1	-7553.0000	-31469.0000 1100-EM-1	N
6-S32-E8	1100-EM-1	-7593.0000	-31506.0000 1100-EM-1	N
6-S30-E10A	1100-EM-1	-9557.0000	-30009.0000 1100-EM-1	N
6-S30-E10B	1100-EM-1	-9583.0000	-30321.0000 1100-EM-1	N
6-S31-E10A	1100-EM-1	-9893.0000	-30550.0000 1100-EM-1	N
6-S31-E10B	1100-EM-1	-9877.0000	-30766.0000	N
6-S31-E10C	1100-EM-1	-9901.0000	-30748.0000 1100-EM-1	N
6-S31-E10D	1100-EM-1	-9902.0000	-31040.0000 1100-EM-1	N
6-S41-E13C	1100-EM-1	-12847.0000	-40986.0000 1100-EM-1	N
6-S37-E12	1100-EM-1	0.0000	0.0000	N
MW-19	1100-EM-1	0.0000	0.0000	N
MW-20	1100-EM-1	0.0000	0.0000	N
MW-21	1100-EM-1	0.0000	0.0000	N
MW-22	1100-EM-1	0.0000	0.0000	N

WELL	CATEGORY	EW	NS SITE	ACCESS COMMENTS
2-E28-26	200-BP-1	55606.0000	44446.0000 LLBG	N
2-E28-27	200-BP-1	54670.0000	44595.0000 LLBG	N
2-E28-28	200-BP-1	56056.0000	44724.0000 LLBG WMA-1	N
2-E32-2	200-BP-1	56565.0000	45904.0000 LLBG	N
2-E32-5	200-BP-1	56725.0000	45306.0000 LLBG	N
2-E33-1	200-BP-1	53335.0000	46375.0000 216-B-43	N
2-E33-3	200-BP-1	53331.0000	46547.0000 216-B-44,45,46	N
2-E33-12	200-BP-1	52850.0000	46436.0000 RR Aquifer	R
2-E33-13	200-BP-1	53093.0000	46278.0000	R
2-E33-14	200-BP-1	52177.0000	46223.0000	N
2-E33-15	200-BP-1	52751.0000	46066.0000	R
2-E33-18	200-BP-1	52825.0000	45624.0000 216-B-7A,7B	R
2-E33-24	200-BP-1	53790.0000	46260.0000 216-B-57	N
2-E33-26	200-BP-1	54315.0000	46600.0000 216-B-61	N
2-E33-28	200-BP-1	54668.0000	45596.0000 LLBG	N

2-E33-29	200-BP-1	54665.0000	45124.0000	LLBG	N
2-E33-3	200-BP-1	53331.0000	46547.0000	216-B-44,45,46	N
2-E33-30	200-BP-1	55660.0000	45903.0000	LLBG	N
2-E33-31	200-BP-1	53687.0000	45975.0000	SST B/BX/BY	N
2-E33-32	200-BP-1	53689.0000	45524.0000	SST B/BX/BY	N
2-E33-33	200-BP-1	51868.0000	45348.0000	SST B/BX/BY	N
2-E33-34	200-BP-1	55065.0000	46796.0000	LLBG WMA-1	N
2-E33-35	200-BP-1	54685.0000	46351.0000	LLBG WMA-1	N
2-E33-38	200-BP-1	0.0000	0.0000		N
2-E33-39	200-BP-1	0.0000	0.0000		N
2-E33-4	200-BP-1	53384.0000	46635.0000		N
2-E33-40	200-BP-1	0.0000	0.0000		N
2-E33-5	200-BP-1	53523.0000	46352.0000	216-B-47	N
2-E33-7	200-BP-1	53520.0000	46619.0000	216-B-48,49,50	N
2-E34-1	200-BP-1	50023.0000	45129.0000		N
2-E34-2	200-BP-1	50048.0000	45076.0000	LLBG	N
2-E34-5	200-BP-1	50014.0000	46791.0000	LLBG	N
6-47-50	200-BP-1	49508.0000	47266.0000	RR Aquifer	N
6-47-60	200-BP-1	60286.0000	47137.0000	600 Area	N
6-48-50	200-BP-1	0.0000	0.0000		N
6-49-55A	200-BP-1	54926.0000	48805.0000	600 Area	N
6-49-55B	200-BP-1	54951.0000	48803.0000	RR Aquifer	N
6-49-57	200-BP-1	56913.0000	48960.0000	600 Area	N
6-49-57B	200-BP-1	0.0000	0.0000		N
6-50-53	200-BP-1	53267.0000	49840.0000	600 Area	N
6-50-53B	200-BP-1	0.0000	0.0000		N
6-52-54	200-BP-1	0.0000	0.0000		N
6-52-57	200-BP-1	0.0000	0.0000		N
6-53-55A	200-BP-1	55014.0000	53006.0000	600 Area	N
6-53-55B	200-BP-1	55030.0000	52979.0000		N
6-53-55C	200-BP-1	55015.0000	52976.0000		N
6-54-57	200-BP-1	56639.0000	54311.0000	RR Aquifer	N
6-55-55	200-BP-1	0.0000	0.0000		N
6-55-57	200-BP-1	57208.0000	54608.0000		N

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
1-B3-1	100 AGGREGATE	79830.0000	71800.0000	100-B/C	N
1-B4-3	100 AGGREGATE	80636.0000	69933.0000	100-B/C	N
1-B4-4	100 AGGREGATE	80367.0000	68978.0000	100-B/C	N
1-B5-1	100 AGGREGATE	82000.0000	69930.0000	100-B/C	N
1-B9-1	100 AGGREGATE	79961.0000	67500.0000	100-B/C	N
1-D2-5	100 AGGREGATE	52638.0000	90783.0000	100-D	N
1-D5-12	100 AGGREGATE	52546.0000	92125.0000	100-D	N
1-D8-3	100 AGGREGATE	52205.0000	94720.0000	100-D	N
1-F5-1	100 AGGREGATE	28255.0000	79531.0000	100-F	N
1-F5-3	100 AGGREGATE	28496.0000	79588.0000	100-F	N
1-F7-1	100 AGGREGATE	33394.0000	77199.0000	100-F	N
1-F8-1	100 AGGREGATE	31265.0000	78536.0000	100-F	N
1-H3-1	100	40052.0000	94994.0000	183-H	N

	AGGREGATE					
1-H4-16	100	38946.0000	95496.0000	183-H	N	
	AGGREGATE					
1-H4-6	100	40245.0000	96473.0000	183-H	N	
	AGGREGATE					
1-K-11	100	68733.0000	76030.0000	100-K	N	
	AGGREGATE					
1-K-19	100	67000.0000	78000.0000	100-K	N	
	AGGREGATE					
1-K-20	100	66125.0000	79500.0000	100-K	N	
	AGGREGATE					
1-N-14	100	59535.0000	87834.0000	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-25	100	61706.1018	85351.1154	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-52	100	0.0000	0.0000	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-59	100	61029.1258	84251.5286	100-N	SC	100 AREA TRAIN.
	AGGREGATE					
1-N-8S	100	60789.0000	86798.0000	100-N	RSC	100 AREA TRAIN.
	AGGREGATE					
6-101-48B	100	47787.0000	101450.0000	600 Area	N	
	AGGREGATE					
6-56-43	100	43048.0000	56261.0000	600 Area	N	
	AGGREGATE					
6-57-25A	100	25477.0000	56755.0000		N	
	AGGREGATE					
6-57-29A	100	28732.0000	57100.0000	600 Area	N	
	AGGREGATE					
6-57-83A	100	82993.0000	57020.0000		N	
	AGGREGATE					
6-58-24	100	24181.0000	58012.0000		N	
	AGGREGATE					
6-59-32	100	32378.0000	59424.0000		N	
	AGGREGATE					
6-59-58	100	57763.0000	58859.0000	600 Area	N	
	AGGREGATE					
6-59-80B	100	79548.0000	59453.0000	600 Area	N	
	AGGREGATE					
6-60-32	100	32032.0000	60390.0000		N	
	AGGREGATE					
6-60-57	100	56612.0000	60350.0000	600 Area	N	
	AGGREGATE					
6-60-60	100	59964.0000	60030.0000	600 Area	N	
	AGGREGATE					
6-61-37	100	37043.0000	60618.0000	600 Area	N	
	AGGREGATE					
6-61-41	100	41118.0000	61355.0000	600 Area	N	
	AGGREGATE					
6-61-62	100	62217.0000	60532.0000	600 Area	N	
	AGGREGATE					
6-61-66	100	65626.0000	61062.0000	600 Area	N	
	AGGREGATE					
6-62-31	100	31412.0000	62454.0000	600 Area	N	
	AGGREGATE					
6-62-43A	100	42880.0000	61938.0000		N	
	AGGREGATE					
6-63-25A	100	24806.0000	63312.0000	600 Area	N	
	AGGREGATE					
6-63-51	100	50622.0000	62557.0000		N	
	AGGREGATE					

6-63-55	100 AGGREGATE	55061.0000	62616.0000	600	Area	N
6-63-58	100 AGGREGATE	57789.0000	62691.0000	600	Area	N
6-63-90	100 AGGREGATE	90264.0000	62892.0000	600	Area	N
6-64-62	100 AGGREGATE	61746.0000	63786.0000	600	Area	N
6-65-22	100 AGGREGATE	21528.0000	65006.0000			N
6-65-23	100 AGGREGATE	22542.0000	64883.0000	600	Area	N
6-65-38	100 AGGREGATE	37991.0000	66002.0000			N
6-65-50	100 AGGREGATE	50146.0000	64699.0000	600	Area	N
6-65-59A	100 AGGREGATE	58931.0000	65050.0000	600	Area	N
6-65-72	100 AGGREGATE	72156.0000	64452.0000	600	Area	N
6-65-83	100 AGGREGATE	82961.0000	64944.0000	600	Area	N
6-66-23	100 AGGREGATE	22997.0000	65994.0000	600	Area	N
6-66-38	100 AGGREGATE	38000.0000	66000.0000	600	Area	N
6-66-39	100 AGGREGATE	39459.0000	66099.0000	600	Area	N
6-66-58	100 AGGREGATE	57768.0000	65807.0000	600	Area	N
6-66-64	100 AGGREGATE	64249.0000	66483.0000	600	Area	N
6-67-51	100 AGGREGATE	51490.0000	67103.0000	600	Area	N
6-67-86	100 AGGREGATE	85997.0000	66996.0000	600	Area	N
6-67-98	100 AGGREGATE	98000.0000	66501.0000	600	Area	N
6-68-105	100 AGGREGATE	105210.0000	68139.0000	600	Area	N
6-69-38	100 AGGREGATE	38090.0000	68592.0000	600	Area	N
6-69-45	100 AGGREGATE	44995.0000	69129.0000			N
6-70-23	100 AGGREGATE	23227.0000	70191.0000			N
6-70-68	100 AGGREGATE	68357.0000	70123.0000	600	Area	N
6-71-30	100 AGGREGATE	30400.0000	71300.0000	600	Area	N
6-71-52	100 AGGREGATE	52368.0000	71310.0000	600	Area	N
6-71-77	100 AGGREGATE	76997.0000	70996.0000	600	Area	N
6-72-73	100 AGGREGATE	73222.0000	72038.0000	600	Area	N
6-72-88	100 AGGREGATE	87500.0000	72100.0000	600	Area	N
6-72-92	100 AGGREGATE	91963.0000	71890.0000	600	Area	N
6-72-98	100 AGGREGATE	98300.0000	72100.0000			N

6-73-61	100 AGGREGATE	60527.0000	73195.0000	600 Area	N
6-74-44	100 AGGREGATE	44200.0000	74200.0000	600 Area	N
6-74-48	100 AGGREGATE	48000.0000	74000.0000		N
6-77-36	100 AGGREGATE	36150.0000	76700.0000	600 Area	N
6-77-54	100 AGGREGATE	54100.0000	76700.0000	600 Area	N
6-78-62	100 AGGREGATE	62300.0000	77750.0000	1324-N/NA	N
6-80-43S	100 AGGREGATE	43182.0000	79685.0000	600 Area	N
6-81-38	100 AGGREGATE	38353.0000	81312.0000		N
6-81-58	100 AGGREGATE	57993.0000	81004.0000	100-N	N
6-83-36	100 AGGREGATE	36000.0000	83000.0000		N
6-83-47	100 AGGREGATE	47100.0000	82850.0000	600 Area	N
6-84-35A	100 AGGREGATE	34996.0000	83999.0000		N
6-85-40A	100 AGGREGATE	39846.0000	85478.0000		N
6-86-42	100 AGGREGATE	42135.0000	85693.0000		N
6-87-42A	100 AGGREGATE	42331.0000	87187.0000		N
6-87-55	100 AGGREGATE	55405.0000	86707.0000	600 Area	N
6-88-41	100 AGGREGATE	41454.0000	87575.0000		N
6-89-35	100 AGGREGATE	35221.0000	88767.0000	183-H	N
6-90-34	100 AGGREGATE	34273.0000	89550.0000		N
6-90-45	100 AGGREGATE	45276.0000	89626.0000	183-H	N
6-91-37	100 AGGREGATE	37341.0000	90373.0000		N
6-92-49	100 AGGREGATE	48571.0000	92407.0000		N
6-96-49	100 AGGREGATE	49232.0000	96388.0000	600 Area	N
6-97-43	100 AGGREGATE	43241.0000	97143.0000	183-H	N
6-97-47	100 AGGREGATE	47285.0000	96735.0000		N
6-97-51A	100 AGGREGATE	50507.0000	97238.0000	600 Area	N
6-99-42	100 AGGREGATE	41606.0000	98944.0000		N
1-B4-5	100 AGGREGATE	0.0000	0.0000		
1-B4-6	100 AGGREGATE	0.0000	0.0000		
1-B4-7	100 AGGREGATE	0.0000	0.0000		
1-F5-5	100 AGGREGATE	0.0000	0.0000		

1-H4-2	100 AGGREGATE	0.0000	0.0000
1-D2-1	100 AGGREGATE	0.0000	0.0000
1-D2-3	100 AGGREGATE	0.0000	0.0000
1-D2-4	100 AGGREGATE	0.0000	0.0000
1-D3-1	100 AGGREGATE	0.0000	0.0000
1-D5-1	100 AGGREGATE	0.0000	0.0000
1-D5-2	100 AGGREGATE	0.0000	0.0000
1-D5-3	100 AGGREGATE	0.0000	0.0000
1-D5-4	100 AGGREGATE	0.0000	0.0000
1-D5-5	100 AGGREGATE	0.0000	0.0000
1-D5-6	100 AGGREGATE	0.0000	0.0000
1-D5-7	100 AGGREGATE	0.0000	0.0000
1-D5-8	100 AGGREGATE	0.0000	0.0000
1-D5-9	100 AGGREGATE	0.0000	0.0000
1-D5-10	100 AGGREGATE	0.0000	0.0000
1-D5-11	100 AGGREGATE	0.0000	0.0000
1-D8-1	100 AGGREGATE	0.0000	0.0000
1-D8-2	100 AGGREGATE	0.0000	0.0000
1-N-1	100 AGGREGATE	0.0000	0.0000
1-N-5	100 AGGREGATE	0.0000	0.0000
1-N-7	100 AGGREGATE	0.0000	0.0000
1-N-8P	100 AGGREGATE	0.0000	0.0000
1-N-8Q	100 AGGREGATE	0.0000	0.0000
1-N-8R	100 AGGREGATE	0.0000	0.0000
1-N-8T	100 AGGREGATE	0.0000	0.0000
1-N-8U	100 AGGREGATE	0.0000	0.0000
1-N-8V	100 AGGREGATE	0.0000	0.0000
1-N-9	100 AGGREGATE	0.0000	0.0000
1-N-10	100 AGGREGATE	0.0000	0.0000
1-N-12	100 AGGREGATE	0.0000	0.0000
1-N-30	100 AGGREGATE	0.0000	0.0000

1-N-13P	100 AGGREGATE	0.0000	0.0000	
1-N-15	100 AGGREGATE	0.0000	0.0000	
1-N-70	100 AGGREGATE	0.0000	0.0000	
6-86-60	100 AGGREGATE	0.0000	0.0000	
1-K-1	100 AGGREGATE	0.0000	0.0000	
1-K-2	100 AGGREGATE	0.0000	0.0000	
1-K-3	100 AGGREGATE	0.0000	0.0000	
1-K-4	100 AGGREGATE	0.0000	0.0000	
1-K-5	100 AGGREGATE	0.0000	0.0000	
1-K-6	100 AGGREGATE	0.0000	0.0000	
1-K-7	100 AGGREGATE	0.0000	0.0000	
1-K-8	100 AGGREGATE	0.0000	0.0000	
1-K-9	100 AGGREGATE	0.0000	0.0000	
1-K-10	100 AGGREGATE	0.0000	0.0000	
1-K-12	100 AGGREGATE	0.0000	0.0000	
1-K-13	100 AGGREGATE	0.0000	0.0000	
1-K-15	100 AGGREGATE	0.0000	0.0000	
1-K-16	100 AGGREGATE	0.0000	0.0000	
1-K-18	100 AGGREGATE	0.0000	0.0000	
1-K-21	100 AGGREGATE	0.0000	0.0000	
1-K-23	100 AGGREGATE	0.0000	0.0000	
1-K-24	100 AGGREGATE	0.0000	0.0000	
1-K-25	100 AGGREGATE	0.0000	0.0000	
6-74-74	100 AGGREGATE	0.0000	0.0000	
6-101-48A	100 AGGREGATE	0.0000	0.0000	
6-59-33	100 AGGREGATE	0.0000	0.0000	
1-B3-2P	100 AGGREGATE	78818.0000	71752.0000	100-B/C N
1-B3-2Q	100 AGGREGATE	78818.0000	71752.0000	100-B/C N
1-B4-1	100 AGGREGATE	80650.0000	70000.0000	100-B/C N
1-B4-2	100 AGGREGATE	80672.0000	69933.0000	100-B/C N
1-F5-4	100 AGGREGATE	30650.0000	79069.0000	100-F N

1-F5-6	100 AGGREGATE	29402.0000	80537.0000	100-F	N
1-F8-2	100 AGGREGATE	31138.0000	78661.0000	100-F	N
1-H3-2A	100 AGGREGATE	40117.0000	96019.0000	100-H	N
1-H3-2B	100 AGGREGATE	40105.0000	96042.0000	100-H	N
1-H3-2C	100 AGGREGATE	40093.0000	96019.0000	100-H	N
1-H4-10	100 AGGREGATE	39499.0000	97349.0000	100-H	N
1-H4-11	100 AGGREGATE	38420.0000	95944.0000	100-H	N
1-H4-12A	100 AGGREGATE	38854.0000	96550.0000	100-H	N
1-H4-12B	100 AGGREGATE	38870.0000	96568.0000	100-H	N
1-H4-12C	100 AGGREGATE	38845.0000	96573.0000	100-H	N
1-H4-13	100 AGGREGATE	38167.0000	95506.0000	100-H	N
1-H4-14	100 AGGREGATE	39529.0000	96025.0000	100-H	N
1-H4-15A	100 AGGREGATE	39197.0000	97012.0000	100-H	N
1-H4-15B	100 AGGREGATE	39212.0000	97032.0000	100-H	N
1-H4-15CQ	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-15CR	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-15CS	100 AGGREGATE	39186.0000	97034.0000	100-H	N
1-H4-17	100 AGGREGATE	39608.0000	96961.0000	100-H	N
1-H4-18	100 AGGREGATE	38825.0000	96037.0000	100-H	N
1-H4-3	100 AGGREGATE	39080.0000	96373.0000	100-H	N
1-H4-4	100 AGGREGATE	38685.0000	96356.0000	100-H	N
1-H4-5	100 AGGREGATE	39065.0000	96639.0000	100-H	N
1-H4-7	100 AGGREGATE	39527.0000	96479.0000	100-H	N
1-H4-8	100 AGGREGATE	39341.0000	96580.0000	100-H	N
1-H4-9	100 AGGREGATE	39136.0000	96488.0000	100-H	N
1-K-13	100 AGGREGATE	68803.0000	76104.0000	100-K	N
1-K-18	100 AGGREGATE	0.0000	0.0000	100-K	N
1-K-22	100 AGGREGATE	65000.0000	81000.0000	100-K	N
1-K-27	100 AGGREGATE	68000.0000	76400.0000	100-K	N
1-K-28	100 AGGREGATE	68060.0000	76350.0000	100-K	N
1-K-29	100 AGGREGATE	67775.0000	76500.0000	100-K	N

1-K-30	100 AGGREGATE	67700.0000	76500.0000	100-K	N
1-N-16	100 AGGREGATE	60950.0000	85208.0000	100-N	N
1-N-17	100 AGGREGATE	60963.0000	86098.0000	100-N	N
1-N-18	100 AGGREGATE	61012.0000	86226.0000	100-N	N
1-N-19	100 AGGREGATE	61185.0000	86064.0000	100-N	N
1-N-2	100 AGGREGATE	60306.0000	86577.0000	100-N	N
1-N-20	100 AGGREGATE	61211.0000	85926.0000	100-N	N
1-N-23	100 AGGREGATE	61469.0000	85586.0000	100-N	N
1-N-26	100 AGGREGATE	61687.0000	85105.0000	100-N	N
1-N-27	100 AGGREGATE	58417.0000	85915.0000	100-N	N
1-N-28	100 AGGREGATE	58738.0000	85315.0000	100-N	N
1-N-29	100 AGGREGATE	59112.0000	85358.0000	100-N	N
1-N-3	100 AGGREGATE	60828.0000	86365.0000	100-N	C CONTROLLED ACC.
1-N-31	100 AGGREGATE	59211.0000	85993.0000	100-N	N
1-N-32	100 AGGREGATE	58893.0000	86077.0000	100-N	N
1-N-33	100 AGGREGATE	59403.0000	86148.0000	100-N	N
1-N-34	100 AGGREGATE	59452.0000	85899.0000	100-N	N
1-N-37	100 AGGREGATE	58687.0000	86476.0000	100-N	N
1-N-4	100 AGGREGATE	60042.0000	85921.0000	100-N	C CONTROLLED ACC.
1-N-40	100 AGGREGATE	58241.0000	86773.0000	100-N	N
1-N-41	100 AGGREGATE	57989.0000	86916.0000	100-N	N
1-N-42	100 AGGREGATE	57716.0000	86724.0000	100-N	N
1-N-44	100 AGGREGATE	57996.0000	86390.0000	100-N	N
1-N-49	100 AGGREGATE	58616.0000	87229.0000	100-N	N
1-N-50	100 AGGREGATE	58284.0000	88012.0000	100-N	N
1-N-51	100 AGGREGATE	59225.0000	88661.0000	100-N	N
1-N-52	100 AGGREGATE	57598.0000	85276.0000	100-N	N
1-N-54	100 AGGREGATE	60678.0000	85836.0000	100-N	N
1-N-55	100 AGGREGATE	60710.0000	85758.0000	100-N	N
1-N-56	100 AGGREGATE	60637.0000	86066.0000	100-N	N
1-N-57	100 AGGREGATE	60517.0000	85535.0000	100-N	N

1-N-6	100 AGGREGATE	59572.0000	85925.0000	100-N	C	CONTROLLED ACC.
1-N-60	100 AGGREGATE	60969.0000	84416.0000	100-N	L	LOCKED ACCESS
1-N-62	100 AGGREGATE	60116.0000	85653.0000	100-N	N	
1-N-63	100 AGGREGATE	59805.0000	85533.0000	100-N	N	
1-N-64	100 AGGREGATE	59578.0000	85428.0000	100-N	C	CONTROLLED ACC.
1-N-65	100 AGGREGATE	59580.0000	85195.0000	100-N	C	CONTROLLED ACC.
1-N-66	100 AGGREGATE	59827.0000	84992.0000	100-N	C	CONTROLLED ACC.
1-N-67	100 AGGREGATE	60248.0000	86377.0000	100-N	C	CONTROLLED ACC.
1-N-69	100 AGGREGATE	60282.0000	86397.0000	100-N	C	CONTROLLED ACC.
1-N-70	100 AGGREGATE	58360.0000	86600.0000	100-N	N	
1-N-8P	100 AGGREGATE	60796.0000	86790.0000	100-N	S	
6-56-53	100 AGGREGATE	52779.0000	56343.0000	600 AREA	N	
6-57-29B	100 AGGREGATE	28686.0000	57108.0000	600 AREA	N	
6-57-83B	100 AGGREGATE	83178.0000	56979.0000	600 AREA	N	
6-57-83C	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-61-55B	100 AGGREGATE	55286.0000	60724.0000	600 AREA	N	
6-61-57	100 AGGREGATE	57281.0000	61410.0000	600 AREA	N	
6-63-95	100 AGGREGATE	95020.0000	63009.0000	600 AREA	N	
6-64-27	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-65-95	100 AGGREGATE	95341.0000	64788.0000	600 AREA	N	
6-66-103	100 AGGREGATE	102780.0000	65980.0000	600 AREA	N	
6-66-91	100 AGGREGATE	90879.0000	65708.0000	600 AREA	N	
6-69-450	100 AGGREGATE	44995.0000	69129.0000	600 AREA	N	
6-81-62	100 AGGREGATE	62072.0000	80813.0000	600 AREA	N	
6-82-45A	100 AGGREGATE	0.0000	0.0000	600 AREA	N	
6-91-45	100 AGGREGATE	0.0000	0.0000	600 AREA	N	

WELL	CATEGORY	EW	NS SITE	ACCESS	COMMENTS
2-W7-4	ERA	77040.0000	45435.0000 LLBG WMA-3	N	
2-W7-5	ERA	76816.0000	46509.0000 LLBG WMA-3	N	

2-W10-17	ERA	0.0000	0.0000	N	
2-W10-18	ERA	0.0000	0.0000	N	
2-W15-6	ERA	75765.0000	40005.0000	216-Z-9	N
2-W15-8	ERA	75910.0000	39740.0000	216-Z-9	R
2-W15-9	ERA	75890.0000	39930.0000	N	
2-W15-16	ERA	77387.0000	40269.0000	LLBG WMA-4	N
2-W15-22	ERA	0.0000	0.0000	N	
2-W18-2	ERA	77150.0000	39120.0000	N	
2-W18-6	ERA	76706.0000	39212.0000	N	
2-W18-7	ERA	76491.0000	39204.0000	216-Z-1A	N
2-W18-9	ERA	76846.0000	38852.0000	216-Z-18	N
2-W18-10	ERA	76803.0000	38847.0000	N	U.G. CONTAM.
2-W18-11	ERA	76955.0000	38735.0000	N	U.G. CONTAM.
2-W18-12	ERA	76955.0000	38850.0000	N	U.G. CONTAM.
2-W18-17	ERA	76091.0000	39256.0000	216-Z-20	N
2-W18-18	ERA	76270.0000	38903.0000	N	
2-W18-19	ERA	76403.0000	38503.0000	N	
2-W18-20	ERA	76477.0000	38103.0000	216-Z-20	N
2-W18-24	ERA	77180.0000	38998.0000	LLBG WMA-4	N
6-38-70	ERA	70226.0000	38142.0000	216-U-17	N
6-39-79	ERA	78751.0000	39198.0000	600 Area	N
6-43-88	ERA	88445.0000	43209.0000	600 Area	N
6-49-79	ERA	79122.0000	48600.0000	600 Area	N
2-W15-82	ERA	75810.0000	39860.0000	N	
	VADOSE				
2-W15-84	ERA	76000.0000	39860.0000	N	
	VADOSE				
2-W15-85	ERA	75910.0000	39970.0000	N	
	VADOSE				
2-W15-86	ERA	75958.0000	39790.0000	N	
	VADOSE				
2-W15-95	ERA	75925.0000	39930.0000	N	
	VADOSE				
2-W15-101	ERA	75860.0000	39890.0000	R	N-LOC Z9 CRIB
	VADOSE				
2-W18-65	ERA	76589.0000	39373.0000	R	
	VADOSE				
2-W18-67	ERA	76534.0000	39399.0000	R	CAVE-IN POT.
	VADOSE				
2-W18-68	ERA	76506.0000	39371.0000	R	CAVE-IN POT.
	VADOSE				
2-W18-76	ERA	76610.0000	39318.0000	R	
	VADOSE				
2-W18-77	ERA	76608.0000	39273.0000	R	
	VADOSE				
2-W18-78	ERA	76600.0000	39308.0000	R	
	VADOSE				
2-W18-79	ERA	76594.0000	39274.0000	R	
	VADOSE				
2-W18-80	ERA	76596.0000	39246.0000	R	
	VADOSE				
2-W18-81	ERA	76605.0000	39283.0000	R	
	VADOSE				
2-W18-82	ERA	77101.0000	38570.0000	N	
	VADOSE				
2-W18-85	ERA	76717.0000	38989.0000	N	
	VADOSE				
2-W18-86	ERA	76742.0000	39106.0000	N	
	VADOSE				

2-W18-87	ERA VADOSE	76604.0000	38980.0000	N
2-W18-88	ERA VADOSE	76432.0000	39298.0000	N
2-W18-89	ERA VADOSE	76752.0000	39360.0000	N
2-W18-93	ERA VADOSE	76905.0000	38744.0000	N
2-W18-94	ERA VADOSE	76880.0000	38662.0000	N
2-W18-95	ERA VADOSE	76970.0000	38665.0000	N
2-W18-96	ERA VADOSE	76790.0000	38825.0000	N
2-W18-97	ERA VADOSE	76790.0000	38745.0000	N
2-W18-98	ERA VADOSE	76880.0000	38940.0000	
2-W18-99	ERA VADOSE	76768.0000	38949.0000	N
2-W18-149	ERA VADOSE	76602.0000	39329.0000	R
2-W18-150	ERA VADOSE	76601.0000	39075.0000	R
2-W18-158	ERA VADOSE	76650.0000	39266.0000	R
2-W18-159	ERA VADOSE	76602.0000	39228.0000	R
2-W18-163	ERA VADOSE	76552.0000	39284.0000	R
2-W18-164	ERA VADOSE	76602.0000	39040.0000	R
2-W18-165	ERA VADOSE	76650.0000	39180.0000	R
2-W18-166	ERA VADOSE	76650.0000	39108.0000	R
2-W18-167	ERA VADOSE	76552.0000	39214.0000	R
2-W18-168	ERA VADOSE	76552.0000	39043.0000	R
2-W18-169	ERA VADOSE	76552.0000	39073.0000	R
2-W18-170	ERA VADOSE	76602.0000	39154.0000	R
2-W18-171	ERA VADOSE	76604.0000	39010.0000	R
2-W18-172	ERA VADOSE	76595.0000	39435.0000	R
2-W18-173	ERA VADOSE	76574.0000	39307.0000	R
2-W18-174	ERA VADOSE	76565.0000	39296.0000	R
2-W18-175	ERA VADOSE	76600.0000	39117.0000	R

General Topics Unit Managers Meeting
September 18, 1991

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Doug Fassett, SWEC (A4-35)
C.E. Clark, DOE-RL (A6-95)
D.L. Clark, DOE-RL (A5-55)
Julie Erickson, DOE-RL (A6-95)
R.D. Freeberg, DOE-RL (A5-19)
R.E. Gerton, DOE-RL (A4-02)
Jim Goodenough, DOE-RL (A6-95)
Elizabeth A. Bracken, DOE-RL (A5-19)
Mary Harmon, DOE-HQ (EM-442)
Paul Pak, DOE-RL (A6-95)
Jim Rasmussen, DOE-RL (A6-95)
Bob Stewart, DOE-RL (A6-95)
Nancy Werdel, DOE-RL (A5-19)

Mike Thompson, DOE-RL (A6-95)
S.H. Wisness, DOE-RL (A6-95)
J.M. Hennig, DOE-RL (A5-21)
John Stewart, USACE
Melvin Adams, WHC (H4-55)
Frank Calapristi, WHC (B2-35)
Steve Clark, WHC (H4-55)
Larry Hulstrom WHC (H4-55)
Wayne Johnson, WHC (H4-55)
Alan Krug, WHC (H4-55)
Merl Lauterbach, WHC (H4-55)
Tim Veneziano, WHC (B2-35)
Fred Roeck, WHC (H4-55)
Jim Patterson, WHC (B2-15)
Steve Weiss, WHC (H4-55)
Tom Wintczak, WHC (L4-92)
R.D. Wojtasek, WHC (L4-92)
Don Kane, EMO (K1-74)
Terri Stewart, PNL (K2-12)
Don Praast, GAO (A1-80)
Bob Henckel, WHC (H4-55)

ADMINISTRATIVE RECORDS: 1100-EM-1, 300-FF-1, 300-FF-5, 200-BP-1, 200-UP-2,
100-HR-1, 100-HR-3, 100-BC-1, 100-BC-5, 100-NR-1, 100-NR-3, 100-FR-1; Care of
Susan Wray, WHC (H4-22)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.